

**UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF OHIO
WESTERN DIVISION**

VIVIAN BERT, et al.,)	CASE NO. C-1-02-467
)	
Plaintiffs,)	Judge Sandra S. Beckwith
)	Magistrate Judge Timothy S. Hogan
)	
v.)	
)	
AK STEEL,)	
)	
Defendant.)	

SUPPLEMENTAL EXPERT REPORT
REGARDING HIRING INTO LABORER POSITIONS
AT THE MIDDLETOWN WORKS AND ASHLAND WORKS OF AK STEEL
EDWIN L. BRADLEY, Ph.D.

I am the CEO and founder of Quantitative Research Associates (“QRA”). QRA provides statistical and computing consulting services. I have applied statistical methodology in the fields of litigation, medical research and business applications for over 38 years. I have been accepted as an expert witness in both State and Federal Courts on a variety of issues, including employment discrimination. I am an author of over 215 publications and research papers. My work has appeared in scientific journals such as *American Statistician*, *Journal of the American Statistical Association*, *IMA Journal of Mathematics Applied in Business and Industry*, and *Technometrics*. I received my Ph.D. in statistics from The University of Florida in 1969. I was a tenured Professor in the Department of Biostatistics at The University of Alabama at Birmingham (“UAB”), where I taught and conducted research for 28 years. I am currently Professor Emeritus of Biostatistics at UAB. A copy of my curriculum vitae, attached hereto in Appendix A, lists my qualifications and publications

in the field of statistics, and sets forth cases in which I have provided expert testimony in the last four years.¹

Introduction

I previously filed an Expert Report on March 1, 2005 that examined the racial composition of the hiring selections for the Laborer positions at AK Steel's Middletown, Ohio Works and Ashland, Kentucky Works² (collectively "AK Steel") for the period from January 1, 2000 through December 31, 2002. Counsel for the plaintiffs has asked me to update my analyses using additional data which has now been provided by AK Steel, and to determine whether its selection process for this job has had an adverse impact against African-American applicants for the period from January 1, 2000 through October 29, 2003. Additionally, I have been asked to determine the number of African-Americans potentially affected by the hiring process for the period June 30, 1999 through the present.³

Summary of Conclusions

Based on my analyses, conducted for the period from January 1, 2000 through October 29, 2003, I have reached the following conclusions:

- There have been over 600 African-Americans potentially affected by the hiring decisions regarding the Laborer position at AK Steel during the period from January 1, 2000 to October 29, 2003;
- The selection process used by AK Steel for filling Laborer positions from January 1, 2000 through October 29, 2003 has had an adverse impact against African-Americans applying for these positions.

¹ My time for consultation, preparation and analysis is billed at the rate of \$400 per hour, and for testifying at the rate of \$600 per hour.

² The Ashland Works consist of two facilities – the Coke Works and the West Works.

³ It is my understanding that the class in this case consists of all African-Americans potentially affected by the Laborer hiring process from June 30, 1999 (300 days prior to the filing of the earliest EEOC charge on April 25, 2000) to the present. I have only received applicant data and/or hardcopy documentation from January 1, 2000 through October 29, 2003. Thus, the number of African-Americans potentially affected by this hiring process could actually be greater than the number reflected in this Report.

Information Relied Upon

I have been provided two electronic files produced by AK Steel containing hiring information, as well as other hardcopy and imaged documentation relating to this matter. For my analyses, I relied primarily on the following:

- Hardcopy applications and application flow information for the Middletown, Ohio Works produced in 33 banker boxes containing Bates numbered documents AKM-000001 through AKM-118119 (“Middletown Hardcopy”);
- Electronic file “Bert Data File 1 (W0330570).xls” containing application and hiring information for the Middletown, Ohio Works for the period September 1, 2000 through August 31, 2002;
- CD labeled “AK Steel 2” containing nearly 23,000 images and index files of additional application flow information for the Middletown, Ohio Works (“Middletown Images”);
- Electronic file “Ashland App Flow (no ssn) (W0377464).xls” containing application and hiring information for the Ashland, Kentucky Works for the period October 24, 2000 through November 18, 2002;
- Hardcopy applications and application flow information for the Ashland, Kentucky Works produced in 13 banker boxes containing Bates numbered documents AKA-000001 through AKA-044455 (“Ashland Hardcopy”);
- CD labeled “AKA03” containing over 7,500 images and index files of additional application flow information for the Ashland, Kentucky Works (“Ashland Images”);
- February 16, 2005 deposition of Susan Lester, Manager of Human Resources for the Ashland, Kentucky Works (“Lester Deposition”); and
- February 16, 2005 deposition of Phyllis Short, General Manager of Human Resources for AK Steel and previously Manager of Human Resources for the Middletown Works (“Short Deposition”);

Adverse Impact

Adverse impact can be determined by either calculating the number of "standard deviations", using sound and commonly accepted principles of statistics, or through the use of the "80%" or "four-fifths" rule contained in §1607.4 of the *Uniform Guidelines on Employee Selection Procedures* (“*Uniform Guidelines*”). Statistical significance, in the field of employment discrimination and in other areas of science, is generally accepted as occurring at the .05 level of significance (sometimes stated inversely as a 95% confidence level). This means that the probability that a given disparity

between the African-American and white rates of selection being related to chance (randomness), rather than race, is 1 chance in 20. When testing to determine whether a procedure has adverse impact against a protected group, such as African-Americans, a one-tailed assumption is appropriate. For statistical tests using a one-tailed assumption, a statistically significant result at the .05 level of significance occurs when the test yields 1.65 or more standard deviations.⁴ In conducting my analyses, I have used a .05 level of significance as the appropriate level in deciding when observed disparities are related to race rather than chance.⁵ Therefore, when a given disparity is described as statistically significant in this Report, it means that it is significant because the risk of race not being related to the disparity is only 1 in 20, or less.

The relevant portion of Section 1607.4 of the *Uniform Guidelines*, which I have applied in determining adverse impact by the "four-fifths" (80%) rule for this Report, states the following:

- D. Adverse impact and the "four-fifths rule". A selection rate for any race, sex, or ethnic group which is less than four-fifths (4/5) (or eighty percent) of the rate for the group with the highest rate will generally be regarded by the Federal enforcement agencies as evidence of adverse impact, while a greater than four-fifths rate will generally not be regarded by Federal enforcement agencies as evidence of adverse impact. Smaller differences in selection rate may nevertheless constitute adverse impact, where they are significant in both statistical and practical terms

⁴ The threshold value for statistical significance at the .05 level of significance using a two-tailed assumption is 1.96 standard deviations. Both the one-tailed and two-tailed assumptions declare a result not statistically significant at the .05 level of significance if it is less than 1.65 standard deviations, and both assumptions declare a result statistically significant at the .05 level of significance if it is 1.96 or more standard deviations. These two assumptions only differ in declaring statistical significance at the .05 level of significance if the resulting number of standard deviations lies between 1.65 and 1.96. The computation of the number of standard deviations is the same whether a one-tailed or two-tailed assumption is used. In this Report, I indicate the number of standard deviations statistic so that the Court can make the decision regarding the statistical significance of a result.

⁵ The larger the number of standard deviations, the smaller the probability, i.e., the less likely the result occurs solely due to chance. Statistical significance means that results are not likely due to chance, and are thereby related to race, at a certain confidence level. When testing to determine whether a procedure has adverse impact against a protected group, statistical significance occurs at the 95% confidence level (5% probability of being due to chance) for 1.65 or more standard deviations, at the 99% confidence level (1% probability of being due to chance) for 2.33 or more standard deviations, and at the 99.9% confidence level (0.1% probability of being due to chance) for 3.09 or more standard deviations.

or where a user's actions have discouraged applicants disproportionately on grounds of race, sex, or ethnic group. ***

Throughout this Report, results with standard deviations that are negative (i.e., preceded by a minus sign) and adverse impact ratios of less than 100% indicate that the African-American representation is less than expected.

Analysis of Hiring Selections For Laborer Positions

The procedure for hiring into the Laborer positions at AK Steel was described in the Lester and Short Depositions and can be summarized as follows:

- Submission of an application for employment with AK Steel through the Ohio Bureau of Employment for the Middletown Works or the Kentucky Bureau of Employment for the Ashland Works.⁶ Applications from individuals are not accepted at the AK Steel facilities.⁷
- An initial screen by the Ohio and Kentucky Bureaus of Employment personnel for minimum qualifications (“MQ”) that consist of an age restriction (must be 18 or older), high school graduate (or GED),⁸ and, in the case of the Middletown Works, some prior manufacturing experience.⁹
- Those applicants passing the MQ at the Ohio and Kentucky Bureaus of Employment are forwarded to the Human Resources Department at each respective Works.¹⁰
- AK Steel’s Human Resources Department at each respective Works again reviews for MQ and checks if an applicant has been convicted of a crime¹¹ or if the applicant has previous work history problems, such as absenteeism or prior termination by AK Steel.¹²
- Those applicants passing the initial screenings are then scheduled, by phone, for testing.¹³

⁶ Applications from African-Americans are accepted for the Ashland Works when completed and returned at job fairs (Lester Deposition pp. 36-37).

⁷ Lester Deposition, pp. 29-30, 34-35 and Short Deposition, pp. 56-57, 60.

⁸ Lester Deposition, pp. 26-27 and Short Deposition, pp. 7-8.

⁹ At one time a minimum of two years manufacturing experience was required at the Middletown Works (Short Deposition pp. 9-10). However, more recently that restriction has been eased. It is unclear whether the Ohio Bureau of Employment is aware of this modification in MQ (Short Deposition pp. 140-141). Previous manufacturing experience is not a requirement at the Ashland Works. (Lester Deposition, p. 27.)

¹⁰ Lester Deposition, p. 42 and Short Deposition, pp. 10, 82-84.

¹¹ At the Middletown Works, only felony convictions are considered and result in disqualification, regardless of when they occurred (Short Deposition pp. 120, 124-125). At the Ashland Works, conviction of either a misdemeanor or felony within the last 5 to 7 years results in disqualification (Lester Deposition pp. 64, 98-99).

¹² Lester Deposition, p. 63 and Short Deposition, p. 83.

¹³ No set procedures are in place regarding the number of attempts that must be made to reach an applicant to set them up to be tested. Nor is there any attempt made to reach an applicant by mail to set them up for testing. (Lester Deposition, pp. 59-60 and Short Deposition, pp. 23-26.)

- The tests are administered under the supervision of AK Steel and then sent to Resource Associates of Knoxville, Tennessee for grading.¹⁴
- Results of the test for each applicant are reported back to AK Steel as “qualified” or “not qualified”.¹⁵
- Those qualifying on the test are then scheduled, by phone, for an in-person interview with AK Steel Human Resource personnel at each Works.¹⁶
- The interview process¹⁷ looks for falsifications on the application and determines whether the applicant has a valid drivers license, prior drug usage, willingness to work rotating shifts, ability to use safety equipment, and subjective criteria such as motivation, conscientiousness, positive attitude and teamwork.¹⁸
- Those passing the interview are then subjected to a background check by an outside vendor to verify application information.¹⁹
- Those passing the background check are then offered employment contingent upon passing an in-house physical examination that includes a drug screen.²⁰
- Those passing the physical examination are then hired into the Laborer position.²¹

Data Considered for Analysis

Since the hiring procedure for Laborers at AK Steel has not changed since at least January 2000²² and the liability period goes back to June 30, 1999, I have evaluated the adverse impact of the hiring process for the entire three-year period of time for which hardcopy documents were provided.

From the Middletown Hardcopy and Middletown Images, I identified a total of 840 hires. The applicants of known race which were abstracted from the Middletown Hardcopy and Middletown Images, after eliminating duplicate applications from the same individual, were used as

¹⁴ Lester Deposition, pp. 69-71 and Short Deposition, pp. 27-30.

¹⁵ Lester Deposition, p. 71 and Short Deposition, p. 30.

¹⁶ No set procedures are in place regarding the number of attempts that must be made to reach an applicant to set them up for an interview. Nor is there any attempt made to reach an applicant by mail to set them up for an interview. (Lester Deposition, p. 79.)

¹⁷ A production supervisor or manager is sometimes present at the interview. (Lester Deposition, pp. 80-81 and Short Deposition, pp. 95-96.)

¹⁸ Lester Deposition, pp. 82-84 and Short Deposition, pp. 35-40.

¹⁹ Background checks are performed by Advantage of Pensacola for the Middletown Works (Short Deposition pp. 117-118) and by Backtrack of Mentor, Ohio for the Ashland Works (Lester Deposition p. 89).

²⁰ Lester Deposition, p. 104 and Short Deposition, p. 43-44.

²¹ Lester Deposition, p. 104 and Short Deposition, p. 43.

²² Lester Deposition, p. 19 and Short Deposition, p. 7.

the benchmark for the determination of adverse impact of the hiring process at the Middletown Works.²³

For the Ashland Works, I used the electronic data file²⁴ provided by the defendant and identified a total of 77 hires for the two-year period from October 24, 2000 through November 18, 2002.²⁵ The applicants of known race, after eliminating duplicate applications from the same individual, were used as the benchmark for the determination of adverse impact of the hiring process at the Ashland Works.²⁶

I also examined the Ashland Hardcopy and Ashland Images. However, these data could not be used in the analysis. Race was missing for more than 30% of the Ashland Hardcopy information. Also, no clear indication of which applicants were ultimately hired was provided in the Ashland Hardcopy information. The Ashland Hardcopy data included resumes that appeared to be provided instead of an actual application. No social security number was provided on most of these resumes, thereby not allowing for removal of duplicate individuals or matching to an application that may have also been submitted. The Ashland Images could not be used because 82% of the applicants were missing race information.²⁷

Analysis of the Total Selection Process

Table 1-A shows the results of my analysis of hires into Laborer positions at AK Steel as compared to the applicants, controlling for location.

²³ There were 7,086 unique applicants. I utilized the electronic file "Bert Data File 1 (W0330570).xls" to aid in determining the race of applicants whose tear sheet was missing or incomplete. Race information was ultimately unobtainable for 295, or 4.2%, of the applicants.

²⁴ Ashland App Flow (no ssn) (W0377464).xls.

²⁵ Application dates ranged from October 24, 2000 through September 17, 2000. Hire dates ranged from October 31, 2000 through November 18, 2002. I eliminated from the analysis one white applicant whose hire date was shown as March 30, 2004.

²⁶ There were 624 unique applicants. Race information was not provided for 40, or 6.4%, of this number.

²⁷ If the missing information noted in this paragraph is provided by the defendant, I will update my analysis for the hires at the Ashland Works for the period from November 18, 2002 to October 29, 2003 in my rebuttal report.

Fewer African-Americans than expected were hired overall and at each specific location. The adverse impact ratios were all less than the 80% allowed under the *Uniform Guidelines*. Overall, there were approximately 34, or 42.6%, fewer African-Americans hired than expected during the period analyzed. This difference is statistically significant with -4.26 standard deviations of difference and an adverse impact ratio of 55.1%. For the Middletown Works, there was a shortfall of approximately 30 African-Americans with a statistically significant difference of -3.85 standard deviations and an adverse impact ratio of 57.6%. For the Ashland Works, there was a shortfall of approximately 5 African-Americans with a statistically significant difference of -2.00 standard deviations and an adverse impact ratio of 28.5%.²⁸

Table 1-A. Analysis of Laborer Hires Compared to Applicants for the Period January 1, 2000 Through October 29, 2003

Location	Applicant Percent A-A	Total Hired	Actual A-A Hired	Expected A-A Hired	Actual Minus Expected	Number of Standard Deviations	Adverse Impact Ratio
Middletown	8.76	840	44	73.60	-29.60	-3.85	57.6%
Ashland	8.56	77	2	6.59	-4.59	-2.00	28.5%
Total	8.74	917	46	80.19	-34.19	-4.26	55.1%

Based on the above analysis, it is my opinion that the hiring process utilized by AK Steel has had an adverse impact against African-Americans applying for the Laborer positions at the Middletown and Ashland Works.

Incompleteness of Documentation

The Rule 30(b)(6) witnesses identified by AK Steel as having knowledge about the hiring process for Laborers at the Middletown Works and Ashland Works stated that the documentation regarding the various stages of the hiring process were not complete. Ms. Lester testified that she did

²⁸ These results are based on a two-year time frame for Ashland.

not have complete information regarding the applicant log,²⁹ the race of the applicants,³⁰ the results of the screening process,³¹ phone records for scheduling the test,³² the reason the applicant failed to take the test,³³ phone records for scheduling the interview,³⁴ records of who was no longer interested in accepting an offer,³⁵ and records of those applicants who failed the physical exam.³⁶ Ms. Short testified that she did not have complete information regarding the results of the screening process,³⁷ phone records for scheduling the test and the reason the applicant failed to take the test,³⁸ records of who failed the background check for falsification,³⁹ and records of who was no longer interested in accepting an offer.⁴⁰

Since the data for each stage of the hiring process is not complete, I cannot analyze separately the components of the selection procedure used for hiring into the Laborer positions at AK Steel.

Size of Potential Class

I have identified 645 African-Americans who have submitted applications for the Laborer positions at AK Steel during the period from January 1, 2000 through October 29, 2003.

Concluding Remarks

The opinions that I have expressed above are based on my education, training, teaching, research, professional consultations, publications, experience and expertise as detailed in my attached curriculum vitae, the “Information Relied Upon” materials, and my own analyses.

²⁹ Lester Deposition, pp. 10-12.

³⁰ Lester Deposition, pp. 16-18.

³¹ Lester Deposition, pp. 52-56.

³² Lester Deposition, pp. 59-60.

³³ Lester Deposition, p. 60.

³⁴ Lester Deposition, p. 79.

³⁵ Lester Deposition, p. 108.

³⁶ Lester Deposition, pp. 120-123.

³⁷ Short Deposition, pp. 86-88, 107-109, 111-113.

³⁸ Short Deposition, pp. 22-25, 91-92.

³⁹ Short Deposition, p. 130.

As my continuing review of the data I have been provided to date, or any additional data I may receive from the defendant, reveal additional areas of statistical analyses that need to be done, I will file supplemental reports.

Edwin Bradley, Jr.

Edwin L. Bradley, Ph.D.

04-18-05

Date

⁴⁰ Short Deposition, p. 131.

Appendix A

Curriculum Vitae

April 15, 2005

CURRICULUM VITAE

EDWIN LUTHER BRADLEY, JR.

CEO, Quantitative Research Associates
2015 Kentucky Avenue
Vestavia Hills, Alabama 35216
Phone: (205) 979-2991

RESIDENCE: 1836 Catala Road
Vestavia Hills, Alabama 35216
Phone: (205) 822-8428

PERSONAL DATA: Born July 16, 1943 in Jacksonville, Florida.
Married, three grown children.

EDUCATION: Bachelor of Science (with honors), August 1964
Mathematics Major
University of Florida

Master of Statistics, April 1967
Statistics Major
University of Florida

Doctor of Philosophy, December 1969
Statistics Major
University of Florida

PRIMARY ACADEMIC APPOINTMENTS:

1997-Present Professor Emeritus
Department of Biostatistics
University of Alabama at Birmingham

1988-1997 Professor
Department of Biostatistics
University of Alabama at Birmingham

1976-1988 Associate Professor
Department of Biostatistics
(Formerly Biostatistics and Biomathematics)
University of Alabama at Birmingham
(Vice Chairman, 1978-1982)

1970-1976 Assistant Professor
Department of Biostatistics
University of Alabama at Birmingham

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SECONDARY ACADEMIC APPOINTMENTS AND OTHER PROFESSIONAL EXPERIENCE:

1973-1997	Professor, Associate Professor, Assistant Professor Department of Mathematics University of Alabama at Birmingham
1978-1980	Associate Diabetes Research and Training Center University of Alabama at Birmingham
1970-1977	Investigator Institute of Dental Research University of Alabama at Birmingham
1968-1969	Statistical Consultant Patuxent Wildlife Research Center Department of Interior Gainesville, Florida
1966-1969	Computer Programmer and Statistical Consultant University of Florida Gainesville, Florida
1965	Computer Programmer Lockheed-Georgia Company Marietta, Georgia

ADMINISTRATIVE APPOINTMENTS AND ACTIVITIES:

1993-1996	Member, Financial Aid Committee School of Public Health University of Alabama at Birmingham
1989-1997	Director, Graduate Program in Biostatistics Department of Biostatistics (Formerly Biostatistics and Biomathematics) University of Alabama at Birmingham
1989-1995	Member, Advisory Committee Postdoctoral Training Program in Caries Research University of Alabama at Birmingham
1985-1997	Chairman, Graduate Committee Department of Biostatistics (Formerly Biostatistics and Biomathematics) University of Alabama at Birmingham

ADMINISTRATIVE APPOINTMENTS AND ACTIVITIES: (Continued)

- | | |
|-----------|---|
| 1978-1982 | Vice Chairman
Department of Biostatistics
University of Alabama at Birmingham |
| 1979 | Participant, UAB Funding Institute
Office of Research and Grants Administration
University of Alabama at Birmingham |
| 1972-1973 | Member, Accreditation Self Study Council
Division of Biophysical Sciences
University of Alabama at Birmingham |

ASSOCIATIONS AND MEMBERSHIPS:

- Ø The Biometric Society, 1970 - Present
- Ø American Statistical Association , 1970 - Present
Member, National Council, 1982 - 1983
- Ø Alabama Chapter of American Statistical Association, 1970 - Present
Secretary-Treasurer, 1978-1979
Vice-President, 1980-1981
President, 1982-1983

HONORS AND AWARDS:

- Ø Phi Eta Sigma - Freshman Honorary, Elected 1962
- Ø Pi Mu Epsilon - Mathematics Honorary, Elected 1963
- Ø Phi Kappa Phi - Scholastic Honorary, Elected 1964
- Ø Sigma Xi - Scientific Honorary, Elected 1982
- Ø Emmett B. Carmichael Award for the Outstanding Paper in the Journal of the Alabama Academy of Science, 1987.
- Ø American Men and Women of Science

REVIEW REFEREE FOR THE FOLLOWING JOURNALS:

- Ø American Journal of Medical Sciences
- Ø Fertility and Sterility
- Ø Anesthesiology
- Ø Alabama Journal of Medical Science
- Ø Hypertension Journal
- Ø Technometrics
- Ø Journal of the American Statistical Association
- Ø American Statistician
- Ø Annals of Neurology
- Ø Clinical Trials

RESEARCH INTERESTS:

- Ø Statistical Computing
- Ø Statistical Modeling
- Ø Statistical Methodology and Applications

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TEACHING ACTIVITIES:

- Ø Statistical Analysis
- Ø Statistics in Biology
- Ø Design of Experiments
- Ø Probability
- Ø Inference
- Ø Least Squares
- Ø Nonparametric Statistics
- Ø Discrete Data Analysis
- Ø Stochastic Processes
- Ø Biometrical Consulting in Research
- Ø Nonlinear Data Analysis
- Ø Multivariate Analysis
- Ø Advanced Analysis

MASTERS' THESES AND PROJECTS DIRECTED:

Martha Perry Roton (1974): Statistical Inference in the Multinomial Distribution with Applications to Human Blood Groups. University of Alabama at Birmingham.

Wayne R. Satterwhite (1977): An Evaluation of a Cancer Rehabilitation Project. University of Alabama at Birmingham.

Sharon Truelove (1978): Models for the Prediction of the Survival of Patients Undergoing Primary Surgery for the Tetralogy of Fallot. University of Alabama at Birmingham.

Ray Allen McKinnis (1979): A Statistical Analysis of Burn Patient Care at the University of Alabama Hospital Burn Service. University of Alabama at Birmingham.

Gretchen A. Cloud (1982): An Exponential Family of Models. University of Alabama at Birmingham.

Carl M. Russell (1988): Two Approaches to Modeling the Mineral Density Profile of Dental Hard Tissues Exposed to Demineralizing Conditions. University of Alabama at Birmingham.

Tonya O. McMillan (1990): The Estimation of Cross - Correlation Coefficients in the Presence of Missing Data. University of Alabama at Birmingham.

Ellen S. Caldwell (1992): Comparing the Effects of Intervention Drugs on Cardiovascular Response to Intubation -- A Meta Analysis. University of Alabama at Birmingham.

Liesl M. Fox (1995): The Pseudo-Binomial Distribution: Applications in Survival Analysis. University of Alabama at Birmingham.

Traci E. Clemons (1996): The Overlapping Coefficient for Two Normal Probability Functions with Unequal Variances. University of Alabama at Birmingham.

Claudia C. Powell (1997): Least Squares Parameter Estimation for the Three-Parameter Weibull Distribution. University of Alabama at Birmingham.

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DOCTORAL DISSERTATIONS DIRECTED:

David Naftel (1978): A Generic Family of Survival Distributions. University of Alabama at Birmingham.

Henry F. Inman (1984): Behavior and Properties of the Overlapping Coefficient as a Measure of Agreement between Distributions. University of Alabama at Birmingham.

Larry G. Blackwood (1989): Contributions to the Theory and Application of the Rasch Model. University of Alabama at Birmingham.

Carl M. Russell (1992): A Simulation Study of Multivariate Randomization Testing Applied to Radiographic Cephalometry. University of Alabama at Birmingham.

Tonya M. Smoot (1993): The Use of Cubic Spline Interpolation in the Analysis of Incomplete Stationary Time Series. University of Alabama at Birmingham.

Traci E. Clemons (1997): A Nonparametric Approach to Estimating the Overlapping Coefficient Using the Kernel Estimation Technique. University of Alabama at Birmingham.

Liesl M. Fox (1997): An Exploration of the Pseudo-Binomial Distribution With Applications to Survival Curve Confidence Intervals. University of Alabama at Birmingham.

PRESENTATIONS AND INVITED SEMINARS:

The Queue GI/M/1 with Balking at Queues of a Fixed Length. Alabama Chapter, American Statistical Association. Tuscaloosa, Alabama, February 21, 1970.

The Effect of pH and Hexamine Concentration upon the Extinction of E. Coli. Alabama Chapter, American Statistical Association, Birmingham, Alabama, February 27, 1971.

A Sufficient Condition for the Equivalence of Maximum Likelihood and Weighted Least Squares Estimates. Alabama Chapter, American Statistical Association, Birmingham, Alabama, June 17, 1972.

The Overlapping Coefficient as a Measure of Agreement between Distributions, with S. Piantadosi. Alabama Chapter, American Statistical Association, Birmingham, Alabama, February 27, 1982.

Some Discrete Distributions Useful in Dentistry. Caries Epidemiology and Clinical Trials Seminar Series, School of Dentistry, Winter, 1983.

Overlapping Coefficient: A Measure of Agreement Between Distributions, with Steven Piantadosi and Henry F. Inman. Biometric Society (ENAR), Spring Meeting, Nashville, March 20-23, 1983.

The Overlapping Coefficient as a Measure of Association in 2 x k Contingency Tables. With H. Inman. Alabama Chapter, American Statistical Association, Birmingham, Alabama, February 4, 1984.

Statistical Approaches for the Analysis of Anesthetic Mortality. Anesthesiology Residents Research Conference, University of Alabama at Birmingham, Fall 1984.

Power Analysis in Statistics. Anesthesiology Residents Research Conference, University of Alabama at Birmingham, Winter 1985.

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PRESENTATIONS AND INVITED SEMINARS: (Continued)

Probit Analysis and Isoboles. Biostatistics Seminar Series, University of Alabama at Birmingham, Winter, 1986.

A Generalized and Unified Model for Predicting Long Term ²²²Rn Concentrations from Short Term Screening Tests, with J.M. Hardin. Third Environmetrics Conference, Madison, Wisconsin, October, 1991.

The Flat Maximum Effect and Generic Linear Scoring Models: A Test, with George A. Overstreet and Robert S. Kemp. Conference on Credit Scoring and Credit Control II, University of Edinburgh, Scotland, September, 1991.

TECHNICAL REPORTS:

Saw JG, **Bradley EL** (1969): The proportion of baulking customers in the queue GI/M/1 with baulking at queues of length N. Project Themis. Technical Report No. 15. University of Florida.

Saw JG, **Bradley EL** (1969): A reordering policy with instantaneous emergency delivery. Project Themis. Technical Report No. 16, University of Florida.

Lyle ES, Jr Patterson RM, Hicks DR, **Bradley EL** (1975): Polymorphic site index curves for natural sweetgum in Alabama. Agriculture Experiment Station, Auburn University. Circular 220, October.

PUBLICATIONS:

Bradley EL (1969): Queues with baulking and their application to an inventory problem. Doctoral dissertation, University of Florida.

Hunt DE, **Bradley EL**, Bachman JW (1970): Microbiological assay for estimating salivary concentrations of the cariostatic antibiotic actinobolin. *Applied Microbiology*, 20(4):583-586.

Legler DW, Mayhall CW, **Bradley EL** (1972): Behavioral characteristics of disadvantaged adult patients. *Journal of Public Health Dentistry*, 32(1):15-21.

Formicola AJ, Grupe HE, **Bradley EL**, Weatherford TW, Hunt DE (1972): A clinical evaluation of a proteolytic enzyme mouthwash on plaque and gingivitis in children. *The New York State Dental Journal*, 38(6):334-340.

Bradley EL, Saw JG (1972): Choosing the optimum lot size for a reordering policy with instantaneous emergency deliveries. *Technometrics*, 14 (4):931-934.

Stickley Jr AR, Mitchell RT, Health RG, Ingram CR, **Bradley EL** (1972): A method for appraising the bird repellency of 4-aminopyridine. *The Journal of Wildlife Management*, 36(4):1313-1316.

Bradley EL (1973): The equivalence of maximum likelihood and weighted least squares estimates in the exponential family. *Journal of the American Statistical Association*, 68(341):199-200.

Zuniga MA, Lopez H, Sandham HJ, **Bradley EL**, Koulourides T (1973): Calcium and phosphorous contents of dental plaques and microhardness changes of sample enamel in the human mouth. *Alabama Journal of Medical Sciences*, 10 (1):3-10.

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PUBLICATIONS (Continued):

Thomas JP, **Bradley EL** (1973). Tetracycline effect on calcification of the molars of rat offspring. *Alabama Journal of Medical Sciences*, 10(1):89-97.

Ikeda T, Sandham HJ, **Bradley EL** (1973): Changes in streptococcus mutans and lactobacilli in plaque in relation to the initiation of dental caries in negro children. *Archs Oral Biology*, 18:555-556.

Robinson G E, **Bradley EL** (1974): TEAM vs. DAU: A study of clinical productivity. *Medical Care*, 12(8):693-708.

Sapsford RN, Blackstone EH, Kirklin JW, Karp RB, Kouchoukos NT, Pacifico AD, Roe CR, **Bradley EL** (1974): Coronary perfusion versus cold ischemic arrest during aortic valve surgery: A randomized study. *Circulation*, 49:1190-1199.

Balch CM, Morgan JM, Sterling WA, **Bradley EL**, Diethelm AG (1975): Kidney transplantation in patients with end stage congenital renal disease. *The American Journal of Surgery* 130:303-308.

Gonzalez M, Feagin F, **Bradley EL** (1975): Factors affecting mineral accretions in the enamel-solution interface. *Journal of Dental Research*, 54(Spec No B):B121-125

Turner ME, **Bradley EL**, Kirk KA, Pruitt KM (1976): A theory of growth. *Mathematical Biosciences*, 29:367-373.

Graham BV, Turner ME, Holland R, **Bradley EL**, Burdeshaw JA (1976): Wavelength discrimination derived from color naming. *Vision Research*, 16:559-562.

Andriopoulos NA, Mestecky J, Miller EJ, **Bradley EL** (1976): Antibodies to native and denatured collagens in sera of patients with rheumatoid arthritis. *Arthritis and Rheumatism*, 19(3):613-617.

Blackstone EH, Kirklin JW, **Bradley EL**, DuShane JW, Appelbaum A (1976): Optimal age and results of repair of large ventricular septal defects. *The Journal of Thoracic and Cardiovascular Surgery*, 72(5):661-679.

Feagin FF, Thiradilok S, Aponte-Merced L, **Bradley EL** (1977). Effects of bicarbonate on remineralization of enamel. *Journal of Oral Pathology*, 6:331-337.

Conrad ME, Knodell RG, **Bradley EL** (1977): Risk factors in transmission of non-A, non-B, posttransfusion hepatitis; the role of hepatitis B antibody in donor blood. *Transfusion*, 17(6):579-585.

Van Loon P, Klip W, **Bradley EL** (1977): Length-force and volume- pressure relationships of arteries. *Biorheology*, 14:181-201.

McGuire RA, Pretlow TG, Wareing TH, **Bradley EL** (1979): Hodgkin's cells and attached lymphocytes: A possible prognostic indicator in splenic tumor. *Cancer*, 44(1):183-187.

Retief DH, Barbakow FH, Friedman M, Bischoff JI, van der Merwe EHM, **Bradley EL** (1979): Kenhardt revisited - A study in a high fluoride area. *Journal of the Dental Association of South Africa*, 34:427- 433.

PUBLICATIONS (Continued):

Legler DW, Hughes ML, **Bradley EL** (1979): Utilization of prepaid dental health care by students in health professional schools. *American Journal of Public Health*, 69(10):1017-1020.

Retief DH, **Bradley EL**, Barbakow FH, Friedman M, van der Merwe EHM, Bischoff JI (1979): Relationships among fluoride concentration in enamel, degree of fluorosis and caries incidence in a community residing in a high fluoride area. *Journal of Oral Pathology*, 8:224-236.

Stilwell DJ, Irvin MD, Levitt RA, Cross K., **Bradley EL**, Horn C (1980): Naloxone and shuttlebox self-stimulation in the rat. *Pharmacology, Biochemistry and Behavior*, 13:739-742.

Williams JB, Karp RB, Kirklin JW, Kouchoukos NT, Pacifico AD, Zorn GL, Blackstone EH, Brown RN, Piantadosi S, **Bradley EL** (1980): Considerations in selection and management of patients undergoing valve replacement with glutaraldehyde-fixed porcine prostheses. *Annals of Thoracic Surgery*, 30(3):247-258.

Retief DH, Sorvas PG, **Bradley EL**, Taylor RE, Walker AR (1980): In vitro fluoride uptake, distribution and retention by human enamel after 1- and 24-hour application of various topical fluoride agents. *Journal of Dental Research*, 59(3):573-582.

Piantadosi S, **Bradley EL** (1980): Letter to the Editor re: Mixed venous blood gases. *Annals of Emergency Medicine*, 9(11):597-598.

Green CL, Pretlow TP, Tucker KA, **Bradley EL**, Cook WJ, Pitts AM, Pretlow TG (1980): Large capacity separation of malignant cells and lymphocytes from the furth mast cell tumor in a reorienting zonal rotor. *Cancer Research*, 40:1791-1796.

Prchal J, Skalka H, Clements RS, **Bradley EL**, Conrad ME, Pittman C (1980): Diabetes and risk of cataract development. *Metabolic & Pediatric Ophthalmology*, 4:185-189.

Boots LR, Dollar JR, Cornwell PE, **Bradley EL** (1981): Transcervical endometrial biopsy in the baboon: effects on the menstrual cycle and relations to protein and dry matter content and histology. *Am J Primatology*, 1:427-437.

Legler DW, McGhee JR, Lynch DP, Mestecky JF, Schaefer ME, Carson J, **Bradley EL** (1981): Immunodeficiency disease and dental caries in man. *Arch Oral Biol*, 26:905-910.

Katz NM, Blackstone EH, Kirklin JW, **Bradley EL**, Lemons JE (1981): Suture techniques for atrioventricular valves. *Journal of Thoracic and Cardiovascular Surgery*, 81(4):528-536.

Navia JM, Lopez H, **Bradley EL** (1981): Biological rat assay for total fluoride availability in foods. *J Nutr*, 111:755-761.

Gibbs M, Retief DH, **Bradley EL**, Taylor RE, Walker AR (1981): In vivo enamel fluoride uptake from and caries inhibition by topical fluoride agents. *J Dent Res*, 60(4):770-775.

Sadowsky PL, Retief DH, **Bradley EL** (1981): Enamel fluoride uptake from orthodontic cements and its effect on demineralization. *Am J Orthod*, 79(5):523-534.

Zampella EJ, **Bradley EL**, Pretlow, T.G. (1982): Glucose-6-phosphate dehydrogenase: a possible clinical indicator for prostatic carcinoma. *Cancer*, 49(2):384-387.

PUBLICATIONS (Continued):

Moore MR, Conrad ME, **Bradley EL**, Prchal JT (1982): Studies of nicotinamide adenine dinucleotide methemoglobin reductase activity in a Jewish population. *Amer J of Hematology*, 12:13-18.

Benediktsson S, Retief DH, **Bradley EL**, Switzer P (1982): The effect of contact time of acidulated phosphate fluoride on fluoride concentration in human enamel. *Archs Oral Biology*, 27:567-572.

Whitehurst GB, Mashburn JP, Pretlow TG, **Bradley EL**, Boohaker EA (1982): Prostatic hexosaminidase activity in patients with benign prostatic hyperplasia and prostatic carcinoma. *Cancer Research*, 42:4300-4303.

Pretlow TG, Whitehurst GB, Pretlow TP, Hunt RS, Jacobs JM, McKenzie DR, McDaniel HG, Hall LM, **Bradley EL** (1982): Decrease in creatine kinase in human prostatic carcinoma compared to benign prostatic hyperplasia. *Cancer Research*, 42:4842-4848.

Sadowsky PL, Retief DH, **Bradley EL**, (1983): Acid resistance of enamel exposed to fluoride-containing orthodontic cements. *Amer J Orthod*, 83(1):33-37.

Retief DH, **Bradley EL**, Holbrook M, Switzer P (1983): Enamel fluoride uptake, distribution and retention from topical fluoride agents. *Caries Research*, 17:44-51.

Boots LR, Cornwell PE, Donahue MA, **Bradley EL** (1983): Vitamin fluctuations in the blood of female baboons in relation to normal menstrual cycles, treatments with lo-ovral or depo-provera and a selected vitamin supplement. *The American Journal of Clinical Nutrition*, 37:518-531.

Blackwell RE, **Bradley EL**, Kline LB, Duvall ER, Vitek JJ, Devane GW, Chang RJ (1983): Comparison of dopamine agonists in the treatment of hyperprolactinemic syndromes: a multicenter study. *Fertility and Sterility*, 39(6):744-748.

Harris BE, Pretlow TP, **Bradley EL**, Whitehurst GB, Pretlow TG (1983): Arginase activity in prostatic tissue of patients with benign prostatic hyperplasia and prostatic carcinoma. *Cancer Research*, 43:3008-3012.

Marshall AG, Kissin I, Reves JG, **Bradley EL**, Blackstone EH (1983): Interaction between negative inotropic effects of halothane and nifedipine in the isolated rat heart. *Journal of Cardiovascular Pharmacology*, 5:592-597.

Hsieh S, Navia JM, **Bradley EL** (1983): Biological assay for zinc availability in wheat germ. *Science of the Total Environment*, 28:393-398.

Kansal S, Roitman D, **Bradley EL**, Sheffield LT (1983): Enhanced evaluation of treadmill tests by means of scoring based on multivariate analysis and its clinical application: a study of 608 patients. *American Journal of Cardiology*, 52(10): 1155-1160.

Fox LS, Blackstone EH, Kirklin JW, Bishop SP, Bergdahl LAL, **Bradley EL** (1984): Relationship of brain blood flow and oxygen consumption to perfusion flow rate during profoundly hypothermic cardiopulmonary bypass. *Journal of Thoracic and Cardiovascular Surgery*, 87(5):658-664.

Rodgers-Neame NT, **Bradley EL**, Blackwell RE (1984): Long-term monolayer culture of human anterior pituitary cells: Functional validation of a method. *Fertility and Sterility*, 41(1):75-80.

PUBLICATIONS (Continued):

Ostrom CA, Koulourides T, Retief DH, **Bradley EL** (1984): Enamel fluoride uptake and acid resistance in subjects with high and low experimental cariogenicity. *Journal of Dental Research*, 63(2):133-136.

Retief DH, **Bradley EL**, Denton JC, Switzer P (1984): Enamel and cementum fluoride uptake from a glass ionomer cement. *Caries Research*, 18:250-257.

Retief DH, Brown R, Harris BE, **Bradley EL** (1984): Fluoride distribution in enamel and cementum of human fluorosed and nonfluorosed mandibular molar teeth. *Journal of the Dental Association of South Africa*, 39:237-240.

Bradley DH, **Bradley EL**, Naftel DC (1984): A generalized Gompertz-Rayleigh model as a survival distribution. *Mathematical Biosciences*, 70(2):195-202.

Gelman S, Rimerman V, Fowler KC, Bishop SP, **Bradley EL** (1984): The effect of halothane, isoflurane, and blood loss on hepatotoxicity and hepatic oxygen availability in phenobarbital-pretreated hypoxic rats. *Anesthesia and Analgesia*, 63:965-72.

Pretlow TP, Boohaker EA, Pitts AM, Macfadyen AJ, **Bradley EL**, Pretlow TG (1984): Heterogeneity and subcompartmentalization in the distribution of eosinophils in human colonic carcinomas. *Am J Pathol*, 116:207-213.

Gross JD, Retief DH, **Bradley EL** (1984): An optimal concentration of phosphoric acid as an etching agent. Part II. Microleakage studies. *Journal of Prosthetic Dentistry*, 52(6):786-789.

Marshall WG, Kouchoukos NT, Pollock SB, **Bradley EL** (1984): Early results of valve replacement with the Bjork-Shiley convexoconcave prosthesis. *Annals of Thoracic Surgery*, 37(5): 398-403.

Gottlieb EW, Retief DH, **Bradley EL** (1985): Microleakage of conventional and high-copper amalgam restorations. *Journal of Prosthetic Dentistry*, 53(3):355-361.

Gross JD, Retief DH, **Bradley EL** (1985): Microleakage of posterior composite restorations. *Dental Materials*, 1:7-10.

Bradley EL (1985): Overlapping coefficient in *Encyclopedia of Statistical Sciences*, Vol. 6. S. Kotz, N.L. Johnson, C.B. Read, Editors. John Wiley and Sons: New York.

Menkhaus PG, Reves JG, Kissin I, Alvis JM, Govier AV, Samuelson PN, LeI, WA, Henling CE, **Bradley EL** (1985): Cardiovascular effects of esmolol in anesthetized humans. *Anesthesia and Analgesia*, 64:327-334.

Tverskoy M, Gelman S, Fowler KC, **Bradley EL** (1985): Influence of fentanyl and morphine on intestinal circulation. *Anesthesia and Analgesia*, 64:577-584.

Rodgers-Neame N, Duncan SF, **Bradley EL**, Blackwell RE (1985): In vitro and in vivo evaluation of latex condoms using a two-phase nonoxynol 9 system. *Fertility and Sterility*, 43 (6):931-936.

Tverskoy M, Gelman S, Fowler KC, **Bradley EL** (1985): Intestinal circulation during inhalation anesthesia. *Anesthesiology*, 62:462-469.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 11

PUBLICATIONS (Continued):

Retief DH, Summerlin DJ, Harris BE, **Bradley EL** (1985): An evaluation of three procedures for fluoride analysis. *Caries Research*, 19:248-254.

Bryant S, Retief DH, **Bradley EL**, Denys FR (1985): The effect of topical fluoride treatment on enamel fluoride uptake and the tensile bond strength of an orthodontic bonding resin. *American Journal of Orthodontics*, 87(4):294-302.

Retief DH, Harris BE, **Bradley EL**, Denys FR (1985): Pyruvic acid as an etching agent in clinical dentistry. *Journal of Biomedical Materials Research*, 19:335-348.

Retief DH, Harris BE, **Bradley EL** (1985): In vitro enamel fluoride uptake from topical fluoride agents. *Dental Materials*, 1:93-97.

Tverskoy M, Gelman S, Fowler KC, **Bradley EL** (1985): Effects of anesthesia induction drugs on circulation in denervated intestinal loop preparation. *Can Anesth Soc J*, 32 (5):516-524.

Pretlow TG, Harris BE, **Bradley EL**, Bueschen AJ, Lloyd KL, Pretlow TP (1985): Enzyme activities in prostatic carcinoma related to Gleason grades. *Cancer Research*, 45:442-446.

Person DL, Kissin I, Brown PT, Xavier AV, Vinik HR, **Bradley EL** (1985): Morphine-caffeine analgesic interaction in rats. *Anesthesia and Analgesia*, 64:851-856.

Essig ME, Bodden WR, **Bradley EL**, Koulourides T, Housch T (1985): Enamel microhardness change and plaque pH measurements in an intra-oral model in humans. *Journal of Dental Research*, 64 (8):1065-1068.

Davis RO, Cosper P, Huddleston JP, **Bradley EL**, Finley SC, Finley WH, Milunsky A (1985): Decreased levels of amniotic alpha-fetoprotein associated with down syndrome. *American Journal of Obstetrics and Gynecology*, 153(5):541-544.

Alvis JM, Reves JG, Govier AV, Menkhaus PG, Henling CE, Spain JA, **Bradley EL** (1985) Computer assisted continuous infusions of fentanyl during cardiac anesthesia: Comparison with a manual method. *Anesthesiology*, 63:41-49.

Adams P, Gelman S, Reves JG, Greenblatt DJ, Alvis JM, **Bradley EL** (1985): Midazolam pharmacodynamics and pharmacokinetics during acute hypovolemia. *Anesthesiology*, 63(2): 140-146.

Luebbers EL, Pretlow TP, Emancipator SN, Boohaker EA, Pitts AM, Macfadyen AJ, **Bradley EL**, Pretlow TG 2nd (1985): Heterogeneity and prognostic significance of macrophages in human colonic carcinomas. *Cancer Research*, 45(10): 5196-5200.

Castillo R, Kissin I, **Bradley EL** (1986): Selective kappa opioid agonist for spinal analgesia without the risk of respiratory depression. *Anesthesia and Analgesia*, 65:350-354.

Samuelson PN, Reves JG, Kirklin JK, **Bradley EL**, Wilson KD, Adams M (1986): Comparison of sufentanil and enflurane-nitrous oxide anesthesia for myocardial revascularization. *Anesthesia and Analgesia*, 65:217-226.

PUBLICATIONS (Continued):

Kissin I, Mason JO, **Bradley EL** (1986): Morphine and fentanyl interactions with thiopental in relation to movement response to noxious stimulation. *Anesthesia and Analgesia*, 65:1149-1154.

Jebeles JA, Kissin I, **Bradley EL** (1986): Spinal and supraspinal mechanisms for morphine-pentobarbital antinociceptive interaction in relation to cardiac acceleration response in rats. *Anesthesia and Analgesia*, 65:601-604.

Thornton JB, Retief DH, **Bradley EL**, Denys FR (1986): The effect of fluoride in phosphoric acid on enamel fluoride uptake and the tensile bond strength of an orthodontic bonding resin. *American Journal of Orthodontics and Dentofacial Orthopedics*, 90 (2):91-101.

Thornton JB, Retief DH, **Bradley EL** (1986): Fluoride release from and tensile bond strength of Ketac-Fil and Ketac-Silver to enamel and dentin. *Dental Materials*, 2:241-245.

Retief DH, Gross JD, **Bradley EL**, Denys FR (1986): Tensile bond strengths of dentin bonding agents to dentin. *Dental Materials*, 2(2):72-77.

Blackwell RE, Rodgers-Neame NT, **Bradley EL**, Asch RH (1986): Regulation of human prolactin secretion by gonadotropin-releasing hormone in vitro. *Fertility & Sterility*, 46(1): 26-31.

Kissin I, Mason JO, Vinik HR, McDanal J, **Bradley EL** (1987): Barbituates inhibit stress-induced analgesia. *Canadian Journal of Anesthesia*, 34(2):146-151.

Boots LR, Donahue MA, Cornwell PE, **Bradley EL** (1987): Serum and endometrial aspartate aminotransferase, glutathione reductase and thiamine transketolase activity during the normal menstrual cycle of the baboon. *Journal of the Alabama Academy of Science*, 58 (4):163-173.

Kissin I, Mason III JO, **Bradley EL** (1987): Pentobarbital and thiopental anesthetic interactions with midazolam. *Anesthesiology*, 67(1):26-31.

Daghero AM, **Bradley EL**, Kissin I (1987): Midazolam antagonizes the analgesic effect of morphine in rats. *Anesth Analg*, 66:944-947.

Kissin I, McDanal J, Brown PT, Xavier AV, **Bradley EL** (1987): Sympathetic blockade increases tactile sensitivity. *Anesth Analg*, 66:1251-1255.

Kissin I, Mason III JO, **Bradley EL** (1987): Morphine and fentanyl hypnotic interactions with thiopental. *Anesthesiology*, 67:331-335.

Brewer KP, Retief DH, Wallace MC, **Bradley EL** (1987): Cementum fluoride uptake from topical fluoride agents. *Gerodontology*, 3:212-214.

Retief DH, Harris BE, **Bradley EL** (1987): Relationship between enamel fluoride concentration and dental caries experience. *Caries Research*, 2:68-78.

O'Brien JA, Retief DH, **Bradley EL**, Denys FR (1987): Effects of saliva contamination and phosphoric acid composition on bond strength. *Dental Materials*, 3:296-302.

Smith RA, Bellezza JJ, Capilouto ML, **Bradley EL**, Denys FR, Retief DH (1987): A clinical study of the composite/bonding resin-tooth interface. *Dental Materials*, 3(4):218-223.

PUBLICATIONS (Continued):

Gelman S, Dillard E, **Bradley EL** (1987): Hepatic circulation during surgical stress and anesthesia with halothane, isoflurane, or fentanyl. *Anesthesia & Analgesia*, 66(10): 936-943.

Hursh D, Gelman S, **Bradley EL** (1987): Hepatic oxygen supply during halothane or isoflurane anesthesia in guinea pigs. *Anesthesiology*, 67(5): 701-706.

Thornton JB, Retief DH, **Bradley EL** (1988): Marginal leakage of two glass ionomer cements: Ketac-Fil and Ketac-Silver. *Am J Dent*, 1:35-38.

Wheeler DM, **Bradley EL**, Woods WT (1988): The electrophysiologic actions of lidocaine and bupivacaine in the isolated, perfused canine heart. *Anesthesiology*, 68:201-212.

Tverskoy M, Fleyshman G, **Bradley EL**, Kissin I (1988): Midazolam-Thiopental anesthetic interaction in patients. *Anesth Analg*, 67:342-345.

Wallace MC, Retief DH, **Bradley EL** (1988): Enamel fluoride distribution in human maxillary permanent first molars. *Journal of the Dental Association of South Africa*, 43:153-156.

Wallace MC, Retief DH, **Bradley EL** (1988): Prevalence of root caries in a population of older adults. *Gerodontology*, 4:84-89.

Wallace MC, Retief DH, **Bradley EL** (1988): Incidence of root caries in older adults. *Hawaii Dental Journal*, 19(8):8.

Aldrete JA, Leite JAA, Pappas AL, Castillo RA, **Bradley EL** (1988): Mudancas no fluxo de gases frescos afetam o volume corrente liberado pelo ventilador durante anestesia. *Revista Brasileira de Anesthesiologia*, 38 (5):311-313.

Beck DE, **Bradley EL**, Farringer JA (1988): Predicting need for pharmacokinetic consultation follow-up using discriminant analysis. *Clinical Pharmacy*, 7:681-688.

Retief DH, Wallace MC, Brewer KP, **Bradley EL** (1988): Relationship between cementum fluoride concentration and root caries experience. *Gerodontology*, 4:28-31.

O'Brien JA, Retief DH, **Bradley EL**, Denys FR (1988): Shear bond strength of a new dentin bonding restorative system. *Dental Materials*, 4:179-183.

Bastos PA, Retief DH, **Bradley EL**, Denys FR (1988): Effect of etch duration on the shear bond strength of a microfilm composite resin to enamel. *American Journal of Dentistry*, 1(4):151-157.

Retief DH, Bastos PA, **Bradley EL**, Denys FR (1988): Shear bond strength of Scotchbond 2/Silux to Dentin. *American Journal of Dentistry*, 1(6): 245-253.

Gelman S, Rabbani S, **Bradley EL** (1988): Inferior and superior vena caval blood flows during cross-clamping of the thoracic aorta in pigs. *Journal of Thoracic & Cardiovascular Surgery*, 96(3): 387-392.

Holm A, **Bradley EL**, Aldrete JS (1989): Hepatic resection of metastasis from colorectal carcinoma: Morbidity, mortality, and pattern of recurrence. *Ann Surg*, 209 (4):428-434.

PUBLICATIONS (Continued):

Tverskoy M, Fleyshman G, Ezry J, **Bradley EL**, Kissin I (1989): Midazolam-morphine sedative interaction in patients. *Anesth Analg*, 68:282-5.

Kissin LC, Brown PT, **Bradley EL**, Robinson CA, Cassady JL (1989): Diazepam-morphine hypnotic synergism in rats. *Anesthesiology*, 70 (4):689-694.

Rackley RR, Lewis TJ, Preston EM, Delmoro CM, **Bradley EL**, Resnick MI, Pretlow TP, Pretlow TG (1989): 5'-Nucleotidase activity in prostatic carcinoma and benign prostatic hyperplasia. *Cancer Research*, 49:3702-7.

Blackwood LG, **Bradley EL** (1989): The equivalence of two methods of parameter estimation for the Rasch Model. *Psychometrika*, 54(4):751-4.

Bradley EL, Blackwood LG (1989): Comparing paired data: A simultaneous test for means and variances. *The American Statistician*, 43(4):234-5.

Inman HF, **Bradley EL** (1989): The overlapping coefficient as a measure of agreement between probability distributions and point estimation of the overlap of two normal densities. *Communications in Statistics*, 18(10):3851-74.

Vinik HR, **Bradley EL**, Kissin I (1989): Midazolam-alfentanil synergism for anesthetic induction in patients. *Anesth Analg*, 69:213-7.

McGinnis MC, **Bradley EL**, Pretlow TP, Ortiz-Reyes R, Bowden CJ, Stellato TA, Pretlow II TG (1989): Correlation of stromal cells by morphometric analysis with metastatic behavior of human colonic carcinoma. *Cancer Research*, 49:5989-93.

Kissin I, **Bradley EL**, Reves JG (1989): Does anesthesia contribute to operative mortality? *JAMA*, 262(7):902.

Pearson JP, Pretlow TP, **Bradley EL**, McGinnis MC, Pretlow TG (1989): Beta-glucuronidase activity in prostatic carcinoma and benign prostatic hyperplasia. *Cancer*, 64(4):911-5.

Legler LR, Retief DH, **Bradley EL**, Denys FR, Sadowsky PL (1989): Effects of phosphoric acid concentration and etch duration on the shear strength of an orthodontic bonding resin to enamel. An in vitro study. *American Journal of Orthodontics & Dentofacial Orthopedics*, 96(6): 485-492.

Retief DH, Wendt SL, **Bradley EL**, Denys FR (1989): The effect of storage media and duration of storage of extracted teeth on the shear bond strength of Scotchbond 2/Silux to dentin. *American Journal of Dentistry*, 2(5):269-273.

Retief DH, Wendth SL, **Bradley EL** (1989): Effect of adhesive thickness on the shear bond strength of Scotchbond 2/Silux to dentin. *American Journal of Dentistry*, 2(6):341-344.

Gregoret S, Gelman S, Dimick A, **Bradley EL** (1989): Hemodynamic changes and oxygen consumption in burned patients during enflurane or isoflurane anesthesia. *Anesth Analg*, 69(4):431-436.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 15

PUBLICATIONS (Continued):

Ebert JP, Pearson JD, Gelman S, Harris C, **Bradley EL** (1989): Circulatory responses to laryngoscopy: the comparative effects of placebo, fentanyl and esmolol. *Canadian Journal of Anaesthesia*, 36(3 Pt 1): 301-306.

Reshef E, Daniel WW, Foster JC, **Bradley EL**, Blackwell RE, Younger JB (1989): Comparison between 1-hour and 24-hour follow-up radiographs in hysterosalpingography using oil based contrast media. *Fertility & Sterility*, 52(5): 753-755.

Thornton JB, al-Zahid S, Campbell VA, Marchetti A, **Bradley EL** (1989): Oral hygiene levels and periodontal disease prevalence among residents with mental retardation at various residential settings. *Special Care in Dentistry*, 9(6): 186-190.

Rackley RR, Lewis TJ, **Bradley EL**, Levin HS, Resnick MI, Pretlow TP, Pretlow II TG (1990): Enzymatic activities in extracts of small (20±5mg) samples of prostatic carcinoma. *Analytical Biochemistry*, 184:128-134.

Azziz R, Rafi A, Smith BR, **Bradley EL**, Zacur HA (1990): On the origin of the elevated 17-hydroxyprogesterone levels after adrenal stimulation in hyperandrogenism. *J of Clinical Endocrinology & Metabolism*, 70(2):431-6.

Tverskoy M, Cozakov C, Ayache M, **Bradley EL**, Kissin I (1990): Postoperative pain after inguinal herniorrhaphy with different types of anesthesia. *Anesth Analg*, 70:29-35.

Azziz R, **Bradley EL**, Huth J, Boots LR, Parker CR, Zacur HA (1990): Acute adrenocorticotropin -(1-24) (ACTH) adrenal stimulation in eumenorrheic women: Reproducibility and effect of ACTH dose, subject weight, and sampling time. *J of Clinical Endocrinology and Metabolism*, 70(5):1273-1279.

Retief DH, Mandras RS, Smith LA, Marchman JL, **Bradley EL**, Russell CM (1990): Shear bond strengths of the tenure dentin bonding systems. *Am J Dent*, 3:138-142.

Roytblat L, Gelman S, **Bradley EL**, Henderson T, Parks D (1990): Dopamine and hepatic oxygen supply-demand relationship. *Can J Physiol Pharmacol*, 68:1165-1169.

Sadowsky PL, Retief DH, Cox PR, Hernandez-Orsini R, Rape WG, **Bradley EL** (1990): Effects of etchant concentration and duration on the retention of orthodontic brackets: an in vivo study. *Am J Orthod Dentofac Orthop*, 98:417-21.

Bellezza JJ, McCartha CD, **Bradley EL**, Denys FR, Retief DH (1990): Four-year in vivo evaluation of the composite/bonding resin-tooth interface. *Dent Mater*, 6:237-240.

Legler LR, Retief DH, **Bradley EL** (1990): Effects of phosphoric acid concentration and etch duration on enamel depth of etch: An in vitro study. *Am J Orthod Dentofac Orthop*, 98:154-60.

Kissin I, Brown PT, **Bradley EL** (1990): Morphine and fentanyl anesthetic interactions with diazepam: Relative antagonism in rats. *Anesth Analg*, 71:236-41.

Kissin I, Brown PT, **Bradley EL** (1990): Sedative and hypnotic midazolam-morphine interaction in rats. *Anesth Analg*, 71:137-43.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 16

PUBLICATIONS (Continued):

Kissin I, Vinik HR, Castillo R, **Bradley EL** (1990): Alfentanil potentiates midazolam-induced unconsciousness in subanalgesic doses. *Anesth Analg*, 71:65-9.

Fowler WK, **Bradley EL**, (1990): Laboratory control of analytical method inaccuracy with respect to a given inaccuracy standard. *Am Ind Hyg Assoc J*, 51(3):127-31.

McCaghren RA, Retief DH, **Bradley EL**, Denys FR (1990): Shear bond strength of light-cured glass ionomer to enamel and dentin. *Journal of Dental Research*, 69(1):40-45.

Gregoretti S, Gelman S, Henderson T, **Bradley EL** (1990): Hemodynamics and oxygen uptake below and above aortic occlusion during crossclamping of the thoracic aorta and sodium nitroprusside infusion. *Journal of Thoracic and Cardiovascular Surgery*, 100(6):830-836.

Nagano K, Gelman S, Parks D, **Bradley EL** (1990): Hepatic circulation and oxygen supply-uptake relationships after hepatic ischemic insult during anesthesia with volatile anesthetics and fentanyl in miniature pigs. *Anesthesia & Analgesia*, 70(1): 53-62.

Nagano K, Gelman S, Parks DA, **Bradley EL** (1990): Hepatic oxygen supply-uptake relationship and metabolism during anesthesia in miniature pigs. *Anesthesiology*, 72(5): 902-910.

Nagano K, Gelman S, **Bradley EL**, Parks D (1990): Hypothermia, hepatic oxygen supply-demand, and ischemia-reperfusion injury in pigs. *American Journal of Physiology*, 258(6 pt 1): G910-918.

Mehta D, **Bradley EL**, Kissin I (1991): Effect of alfentanil on hypnotic and antinociceptive components of thiopental sodium anesthesia. *Journal of Clinical Anesthesia*, 3(4):280-4.

Roytblat L, Gelman S, Henderson T, **Bradley EL** (1991): Humoral factors and hemodynamics during cross-clamping of the thoracic aorta. *Journal of Cardiothoracic and Vascular Anesthesia*, 5(1):10-14.

Azziz R, Boots LR, Parker CR, **Bradley EL**, Zacur HA (1991): 11 β -hydroxylase deficiency in hyperandrogenism. *Fertil Steril*, 55(4):733-41.

Kissin I, Brown PT, Robinson A, **Bradley EL** (1991): Acute tolerance in morphine analgesia: Continuous infusion and single injection in rats. *Anesthesiology*, 74(1):166-71.

Blackwood LG, **Bradley EL** (1991): An omnibus test for comparing two measuring devices." *Journal of Quality Technology*, 23(1):12-16.

Azziz R, Gay F, Potter SR, **Bradley E**, Boots LR (1991): The effects of prolonged hypertestosteronemia on adrenocortical biosynthesis in oophorectomized women. *Journal of Clinical Endocrinol Metab*, 72(5):1025-30.

Azziz R, Zacur HA, Parker CR, **Bradley EL**, Boots LR (1991): Effect of obesity on the response to acute adrenocorticotropin stimulation in eumenorrheic women. *Fertility and Sterility*, 56(3):427-33.

Inman HF, **Bradley EL** (1991): Approximations to the mean and variance of the index of dissimilarity in 2 x C tables under a random allocation model. *Sociological Methods and Research*, 20(2):242-55.

PUBLICATIONS (Continued):

Rackley RR, Yang B, Pretlow TG, Abdul-Karim FW, Lewis TJ, McNamara N, Delmoro CM, **Bradley EL**, Kursh E, Resnick MI, Pretlow TP (1991): Differences in the leucine aminopeptidase activity in extracts from human prostatic carcinoma and benign prostatic hyperplasia. *Cancer*, 68(3):587-93.

Kissin I, Vinik HR, **Bradley EL** (1991): Midazolam potentiates thiopental sodium anesthetic induction in patients. *Journal of Clinical Anesthesiology*, 3(5):367-70.

Kissin I, Brown PT, Robinson CA, **Bradley EL** (1991): Acute tolerance to the hypnotic effect of morphine in rats. *Anesth Analg*, 73(5):619-21.

Kissin I, Brown PT, **Bradley EL** (1991): Magnitude of acute tolerance to opioids is not related to their potency. *Anesthesiology*, 75(5):813-16.

Jebeles JA, Reilly JS, Gutierrez JF, **Bradley EL**, Kissin I (1991): The effect of pre-incisional infiltration of tonsils with bupivacaine on the pain following tonsillectomy under general anesthesia. *Pain*, 47(3):305-8.

Buyalos RP, **Bradley EL**, Judd HL, Zacur HA, Azziz R (1991): No acute effect of physiological insulin increase on dehydroepiandrosterone sulfate in women with obesity and/or polycystic ovarian disease. *Fertility and Sterility*, 56(6):1179-82.

Pretlow TG, Pretlow TP, Yang B, Kaetzel CS, Delmoro CM, Kamis SM, Bodner DR, Kursh E, Resnick MI, **Bradley EL** (1991): Tissue concentrations of prostate-specific antigen in prostatic carcinoma and benign prostatic hyperplasia. *Int J Cancer*, 49:645-9.

Gregoretti S, Henderson CT, **Bradley EL** (1991): Simultaneous cardiac output measurements by transtracheal doppler, electromagnetic flow meter, and thermodilution during various hemodynamic states in pigs. *Anesth Analg*, 73(4):455-459.

Stinnett EA, Childers NK, Wright JT, Rodu BK, **Bradley EL** (1992): The detection of oral Candida in pediatric leukemia patients. *Pediatric Dentistry*, 14(4):236-9.

Kissin I, Brown PT, **Bradley EL** (1992): Locomotor activity after recovery from hypnosis: midazolam-morphine versus midazolam. *Anesthesia and Analgesia*, 75(6):929-31.

Roytblat L, Katz J, Rozentsveig V, Gesztes T, **Bradley EL**, Kissin I (1992): Anaesthetic interaction between thiopentone and ketamine. *European Journal of Anaesthesiology*, 9(4):307-12.

Mansson-Rahemtulla B, Techanitiswad T, Rahemtulla T, McMillan TO, **Bradley EL**, Wahlin YB (1992): Analysis of salivary components in leukemia patients receiving chemotherapy. *Oral Surgery, Oral Medicine, and Oral Pathology*, 73(1):35-46.

Borton TE, Eby TL, Ball EV, Nolen BL, **Bradley EL** (1992): Stimulus repetition rate effect on the auditory brainstem response in systemic lupus erythematosus. *Laryngoscope*, 102(3):335-339.

Overstreet GA, **Bradley EL**, Kemp RS (1992): The flat maximum effect and generic linear scoring models: A test. *IMA Journal of Mathematics Applied in Business and Industry*, Edited by LC Thomas, S McKee, 4(1):97-109.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 18

PUBLICATIONS (Continued):

Overstreet GA, **Bradley EL** (1992): The applicability of generic linear scoring models in the credit union environment: Further tests. Credit Union Proceedings, University of Virginia, October 2.

Mehta D, **Bradley EL**, Kissin I (1993): Metoclopramide decreases thiopental hypnotic requirements. *Anesthesia and Analgesia*, 77(4):784-7.

Wallace MC, Retief DH, **Bradley EL** (1993): The 48-month increment of root caries in an urban population of older adults participating in a preventive dental program. *Journal of Public Health Dentistry*, 53(3):133-7.

Balschi JA, Henderson T, **Bradley EL**, Gelman S (1993): Effects of crossclamping the descending aorta on the high-energy phosphates of myocardium and skeletal muscle. A phosphorus 31-nuclear magnetic resonance study. *Journal of Thoracic and Cardiovascular Surgery*, 106(2):346-56.

Kissin I, Brown PT, **Bradley EL** (1993): Does midazolam inhibit the development of acute tolerance to the analgesic effect of alfentanil? *Life Sciences*, 52(8):PL55-60.

Jebeles JA, Reilly JS, Gutierrez JF, **Bradley EL**, Kissin I (1993): Tonsillectomy and adenoidectomy pain reduction by local bupivacaine infiltration in children. *International Journal of Pediatric Otorhinolaryngology*, 25(1-3):149-54.

Azziz R, **Bradley EL**, Potter HD, Boots LR (1993): 3 β -Hydroxysteroid dehydrogenase deficiency in hyperandrogenism. *The American Journal of Obstetrics and Gynecology*, 168:889-895.

Colburn N, Meyer RD, Wrigley M, **Bradley EL** (1993): Should motorcycles be operated within the legal alcohol limits for automobiles? *Journal of Trauma*, 35(2):183-6.

Kissin I, Stanski DR, Brown PT, **Bradley EL** (1993): Pentobarbital-morphine anesthetic interactions in terms of intensity of noxious stimulation required for arousal. *Anesthesiology*, 78(4):774-749.

Alonso JE, Davila R, **Bradley EL** (1994): Extended iliofemoral versus triradiate approaches in management of associated acetabular fractures. *Clinical Orthopaedics and Related Research*, 305:81-7.

Azziz R, Potter HD, **Bradley EL**, Boots LR (1994): Δ 5-Androstene-3 β , 17 β -diol in healthy eumenorrheic women: Relationship to body mass and hormonal profile. *Fertility and Sterility*, 62(2):321-326.

Rogers WJ, Dean LS, Moore PB, Wool KJ, Burgard SL, **Bradley EL** (1994): Comparison of primary angioplasty versus thrombolytic therapy for acute myocardial infarction. Alabama Registry of Myocardial Ischemia Investigators. *The American Journal of Cardiology*, 74(2):111-118.

Russell CM, Williamson DF, Bartko JJ, **Bradley EL** (1994): Simulation study of a panel of reliability indicators applied to paired measurements. *American Journal of Human Biology*, 6:311-320.

Inman HF, **Bradley EL** (1994): Hypothesis tests and confidence interval estimates for the overlap of two normal distributions with equal variances. *Environmetrics*, 5:167-189.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 19

PUBLICATIONS (Continued):

Whitaker JN, Williams PH, Layton BA, McFarland HF, Stone LA, Smith ME, Kachelhofer RD, **Bradley EL**, Burgard S, Zhao G, Paty DW (1994): Correlation of clinical features and findings on cranial magnetic resonance imaging with urinary myelin basic protein-like material in patients with multiple sclerosis. *Annals of Neurology*, 35(5):577-85.

Tverskoy M, Oz Y, Isakson A, Finger J, **Bradley EL**, Kissin I (1994): Preemptive effect of fentanyl and ketamine on postoperative pain and wound hyperalgesia. *Anesth Analg*, 78:205-9.

Vinik HR, **Bradley EL**, Kissin I (1994): Triple anesthetic combination: Propofol-midazolam-alfentanil. *Anesth Analg*, 78(2):354-8.

Henzlova MJ, Blackburn GH, **Bradley EL**, Rogers WJ (1994): Patient perception of a long-term clinical trial: Experience using a close-out questionnaire in the studies of left ventricular dysfunction (SOLVD) trial. *Controlled Clinical Trials*, 15:284-293.

Azziz R, **Bradley EL**, Potter HD, Parker CR, Boots LR (1995): Chronic hyperinsulinemia and the adrenal androgen response to acute corticotropin-(1-24) stimulation in hyperandrogenic women. *American Journal of Obstetrics and Gynecology*, 172(4):1251-6.

Robinson OG, **Bradley EL**, Wilson DS (1995): Analysis of explanted silicone implants: A report of 300 patients. *Annals of Plastic Surgery*, 34:1-7.

Azziz R, **Bradley EL**, Potter HD, Boots LR (1995): Adrenal androgen excess in women: Lack of role for 17-hydroxylase and 17,20-lyase dysregulation. *Journal of Clinical Endocrinology and Metabolism*, 80(2):400-405.

Azziz R, Ochoa TM, **Bradley EL**, Potter HD, Boots LR (1995): Leuprolide and estrogen versus oral contraceptive pills for the treatment of hirsutism: A prospective randomized study. *Journal of Clinical Endocrinology and Metabolism*, 80:3406-3411.

Whitaker JN, Kachelhofer RD, **Bradley EL**, Burgard SL, Layton BA, Reder AT, Morrison W, Zhao GJ, Paty DW (1995): Urinary myelin basic protein-like material as a correlate of the progression of multiple sclerosis. *Annals of Neurology*, 38:625-632.

Weinbroum A, Nielsen VG, Tan S, Gelman S, Matalon S, Skinner KA, **Bradley EL**, Parks DA (1995): Liver Ischemia-reperfusion increases pulmonary permeability in the rat: Role of circulating xanthine oxidase. *American Journal of Physiology*, 268:G988-G996.

Balschi JA, Hetherington HP, **Bradley EL**, Pohost GM (1995): Water-suppressed one-dimensional ¹H NMR chemical shift imaging of the heart before and after regional ischemia. *NMR in Biomedicine*, 8(2):79-86.

Gregoret S, **Bradley EL** (1996): The significance of microemboli detection by means of transcranial doppler ultrasonography monitoring in carotid endarterectomy, by R.G.A. Ackerstaff et al. Letter to the editor of the *Journal of Vascular Surgery*, 23(4):734-735.

Everson MP, **Bradley EL**, Blackburn WD (1996): Silicone gel and hypersensitivity (letter). *Plastic and Reconstructive Surgery*, 98(1): 1324-1325.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 20

PUBLICATIONS (Continued):

Overstreet GA and **Bradley EL** (1996): Applicability of generic linear scoring models in the U.S. credit-union environment. *IMA Journal of Mathematics Applied in Business & Industry*. 7:291-311.

Kissin I, Lee SS, Arthur GR and **Bradley EL** (1996): Time course characteristics of acute tolerance development to continuously infused alfentanil in rats. *Anesth Analg*, 83:600-605.

Balschi JA, Hai JO, Wolkowicz PE, Straeter-Knowlen I, Evanochko WT, Caulfield JB, **Bradley EL**, Ku DD and Pohost GM (1997): ¹H NMR measurement of triacylglycerol accumulation in the post-ischemic canine heart after transient increase of plasma lipids. *Journal of Molecular and Cellular Cardiology*. 29:471-480.

Vale FL, **Bradley EL**, and Fisher WS (1997): The relationship of subarachnoid hemorrhage and the need for postoperative shunting. *Journal of Neurosurgery*, 86:462-466.

Kissin I, Lee SS, Arthur GR and **Bradley EL** (1997): Effect of midazolam on development of acute tolerance to alfentanil: The role of pharmacokinetic interactions. *Anesth Analg*, 85:182-187.

Sanchez OM, Childers NK, Fox L, and **Bradley EL** (1997): Physicians' views on pediatric preventive dental care. *Pediatric Dentistry*, 19(6):377-383.

Balschi JA, Shen H, Madden MC, Hai JO, **Bradley EL**, Wolowicz PE (1997): Model systems for modulating the free energy of ATP hydrolysis in normoxically perfused rat hearts. *Journal of Molecular & Cellular Cardiology*, 29(11):3123-3133.

Williams MD, Sarver DM, Sadowsky PL, **Bradley EL** (1997): Combined rapid maxillary expansion and protraction facemask in the treatment of Class III malocclusions in growing children: A prospective long-term study. *Seminars in Orthodontics*, 3(4):265-274.

Kissin I, Lee SS, **Bradley EL** (1998): Effect of prolonged nerve block on inflammatory hyperalgesia in rats: Prevention of late hyperalgesia. *Anesthesiology*, 88(1):224-232.

Sample LB, Sadowsky PL, **Bradley EL** (1998): An evaluation of two VTO methods. *The Angle Orthodontist*, 68(5):401-408.

Nurko C, Aponte-Merced L, **Bradley EL**, Fox L (1998): Dental caries prevalence and dental health care of Mexican-American workers' children. *Journal of Dentistry for Children*, 65(1):65-72.

Azziz R, Rittmaster RS, Fox LM, **Bradley EL**, Potter HD, Boots LR (1998): Role of the ovary in the adrenal androgen excess of hyperandrogenic women. *Fertility and Sterility*, 69(5):851-859.

Azziz R, Rittmaster RS, Fox LM, **Bradley EL**, Potter HD, Boots LR (1998): Letter to the Editor. Re: The effect of ovarian steroid production on adrenal steroidogenesis?. *Fertility and Sterility*, 70(6):1187-1189.

Vinik HR, **Bradley EL**, Kissin I (1999): Isobolographic analysis of propofol-thiopental hypnotic interaction in surgical patients. *Anesthesia & Analgesia*, 88(3):667-670.

Kissin I, Less SS, **Bradley EL** (1999): Hyperalgesia caused by nerve transection: long-lasting block prevents early hyperalgesia in the receptive field of the surviving nerve. *Anesthesia & Analgesia*, 89(6):1475-1481.

Edwin L. Bradley, Jr., PhD
Curriculum Vitae
Page 21

PUBLICATIONS (Continued):

Kissin I, Bright CA, **Bradley EL** (2000): Acute tolerance to continuously infused alfentanil: the role of cholecystokinin and N-methyl-D-aspartate-nitric oxide systems. *Anesthesia & Analgesia*, 91(1):110-116.

Kissin I, Bright CA, **Bradley EL** (2000): The effect of ketamine on opioid-induced acute tolerance: can it explain reduction of opioid consumption with ketamine-opioid analgesic combinations? *Anesthesia & Analgesia*, 91(6):1483-1488.

Clemons TE, **Bradley EL** (2000): A nonparametric measure of the overlapping coefficient. *Computational Statistics & Data Analysis*, 34(1):51-61.

Kissin I, Bright CA, **Bradley EL** (2001): Can inflammatory pain prevent the development of acute tolerance to alfentanil? *Anesthesia & Analgesia*, 92(5):1296-1300.

Kissin I, Bright CA, **Bradley EL** (2002): Selective and long-lasting neural blockade with resiniferatoxin prevents inflammatory pain hypersensitivity. *Anesthesia & Analgesia*, 94(5):1253-1258.

Lee DH, Lee Dickson KF, **Bradley EL** (2004): The incidence of wrist interosseous ligament and triangular fibrocartilage articular disc disruptions: A cadaveric study. *The Journal of Hand Surgery*, 29A(4):676-684.

Lee DH, Lee KH, Lopez-Ben RJ, **Bradley EL** (2004): The double density sign – a radiographic finding for an os acromiale. *The Journal of Bone and Joint Surgery*, 86-A(12):2666-2670.

Kissin I, Davison N, **Bradley EL** (2004): Perineural resiniferatoxin prevents hyperalgesia in a rat model of postoperative pain. *Anesthesia & Analgesia*, (In Press).

ABSTRACTS:

Bradley EL (1970): Queues with baulking and their application to an inventory problem. Dissertation Abstracts International. 31(5):

Finn SB, Thomas J, **Bradley EL** (1972): Clinical effect of phosphated lozenges on dental caries. International Association for Dental Research, Fiftieth General Session, Las Vegas, Nevada. p. 181, Abstract No. 536.

Balch CM, Morgan JM, **Bradley EL**, Diethelm AG (1974): Results of transplantation in hereditary renal diseases. Southeastern Dialysis and Transplantation Association Publication. 9:22.

Walker DR, Blackstone EH, Kirklin JW, Karp RB, Kouchoukos NT, Pacifico AD, **Bradley EL**, Roe CR, Shealy A (1976): Arterial microfiltration during cardiopulmonary bypass: a randomized study in patients undergoing coronary artery surgery. American Heart Association's 49th General Session, November 15-18.

Navia JM, Lopez H, Huang CH, **Bradley EL** (1977): Biological method to assay total fluoride availability in foods. International Association for Dental Research, Fifty-fifth General Session.

Navia JM, Huang CH, Lopez H, Alvarez C, **Bradley EL** (1977): Longitudinal study correlating enamel fluoride with caries susceptibility of rats. American Association for Dental Research.

ABSTRACTS (Continued):

Katz NM, Blackstone EH, **Bradley EL**, Tracy WG, Lemons JE (1978): Cardiovascular suture techniques in vitro. American Heart Association Fifty-first Scientific Session, Dallas. November 13-16.

Legler DW, Arnold RR, Lynch D, **Bradley EL** (1979): Immunodeficiency disease and dental caries. *Journal of Dental Research*, 58 (Special Issue A).

Sorvas PG, Retief DH, **Bradley EL**, Taylor RE, Walker AR (1979): Enamel fluoride uptake, distribution and retention from topical fluoride agents. *Journal of Dental Research*, 58 (Special Issue A).

Retief DH, **Bradley EL** (1979): Enamel fluoride, fluorosis and DMFT in and endemic fluoride area. *Journal of Dental Research*, 58 (Special Issue A).

Prchal J, Skalka H, Clements R, **Bradley EL**, Conrad M, Pittman C (1980): Diabetes and risk of cataract development. *Metabolic and Pediatric Ophthalmology*, 4:104.

Sadowsky PL, Retief DH, **Bradley EL** (1980): In vitro fluoride uptake and distribution in enamel from orthodontic cements. *Journal of Dental Research*, 59 (Special Issue A):376.

Gibbs M, Retief DH, **Bradley EL**, Walker AR (1980): Enamel fluoride uptake and caries inhibition by topical fluoride varnishes. *Journal of Dental research*, 59 (Special Issue A):392.

Sadowsky PL, Retief DH, **Bradley EL** (1981): Enamel fluoride uptake from orthodontic cements and its effect on demineralization. *Journal of Dental Research*, 60 (Special Issue A):251.

Retief DH, **Bradley EL**, Holbrook M, Switzer P (1981): Enamel fluoride uptake, distribution and retention from topical fluoride agents. *Journal of Dental Research*, 60 (Special Issue A):1066.

Ostrom CA, Koulourides T, Retief DH, **Bradley EL** (1981): Influence of fluoride in sucrose on enamel and caries resistance. *Journal of Dental Research*, 60 (Special Issue A):1067.

Benediktsson S, Retief DH, **Bradley EL**, Switzer P (1982): The effect of APF contact time on enamel fluoride. *Journal of Dental Research*, 61:210.

Retief DH, **Bradley EL**, Denton JC, Switzer P (1982): Enamel and cementum fluoride uptake from a glass ionomer cement. *Journal of Dental Research*, 61: 331.

Fox LS, Blackstone EH, Kirklin JW, Bishop SP, **Bradley EL** (1982): Relationship of brain flow and oxygen consumption to perfusion flow rate during hypothermic cardiopulmonary bypass. American Heart Association fifty-fifth Scientific Session, November 15-18.

Marshall AG, Reves JG, Kissin I, Blackstone EH, **Bradley EL** (1983): Interaction between negative inotropic effects of halothane and nifedipine. International Anesthesia Research Society, Fifty-seventh Congress, March 13-17.

Gross JD, Retief DH, **Bradley EL** (1983): Composites: Effects of phosphoric acid concentration on microleakage. *Journal of Dental Research*, 62:219.

Wright JT, Retief DH, **Bradley EL** (1983): Tensile bond strengths and penetration coefficients of pit and fissure sealants. *Journal of Dental Research*, 62:268.

ABSTRACTS (Continued):

Summerlin DJ, Retief DH, **Bradley EL**, Denton JC (1983): Fluoride concentration in mandibular molars. *Journal of Dental Research*, 62:271.

Gross JD, Retief DH, **Bradley EL** (1984): Microleakage of posterior composite restorations. *Journal of Dental Research*, 63:179.

Bryant S, Retief DH, **Bradley EL**, Summerlin DJ (1984): The effect of topical fluoride treatment on bond strength. *Journal of Dental Research*, 63:232.

Harris BE, Retief DH, **Bradley EL** (1984): Enamel fluoride uptake and retention from topical fluoride agents. *Journal of Dental Research*, 63:273.

Summerlin DJ, Retief DH, **Bradley EL**, Harris BE (1984): A comparison of three analytical procedures for fluoride analysis. *Journal of Dental Research*, 63:317.

Retief DH, **Bradley EL** (1984): Pyruvic acid as an etching agent. *Journal of Dental Research*, 63:337.

Adams P, Gelman S, Reves JG, Greenblatt DJ, Alvis JM, **Bradley EL** (1985): Midazolam pharmacodynamics and pharmacokinetics in dogs during acute hypovolemia. *Anesthesia and Analgesia*.

Ebert J, Malloy D, LaBorde P, Proctor J, **Bradley EL**, Niemann K (1985): Neuroendocrine and hemodynamic responses to induced hypotension during total hip arthroplasty. *Anesthesia and Analgesia*.

Harris BE, Retief DH, **Bradley EL** (1985): Relationship between enamel fluoride concentration and dental caries experience. *Journal of Dental Research*, 64:225, Abstract 457.

Gross JD, Retief DH, **Bradley EL** (1985): Tensile bond strengths of dentin bonding agents to dentin. *Journal of Dental Research*, 64:244, Abstract 621.

Thornton JB, Retief DH, Harris B, **Bradley EL** (1985): Effect of Fluoride in H₃PO₄ on tensile bond strength. *Journal of Dental Research*, 64:251, Abstract 684.

Essig ME, Bodden WR, **Bradley EL**, Koulourides T, Housch T (1985): Effect of 100 vs. 1000 ppm fluoride (F) in 3% sucrose (S) on the pH of ICT plaques. International Association of Dental Research. Las Vegas, March.

Samuelson PN, Reves JG, Kirklin JK, George J, **Bradley EL**, Wilson KD, Barker S, Oparil S, Adams ML (1985): Sufentanil infusion anesthesia in patients undergoing valvular heart surgery. American Society of Anesthesiology, April.

Retief DH, Glenn WD, Glenn FB, Brewer KP, Cochran-Wallace M, **Bradley EL** (1986): Effect of fluoride exposure on fluoride concentration of deciduous tooth enamel. *Journal of Dental Research*, 64:234, Abstract 582.

Wallace MC, Retief DH, **Bradley EL** (1986): Fluoride distribution in human permanent maxillary molars. *Journal of Dental Research*, 65:234, Abstract 585.

ABSTRACTS (Continued):

Brewer KP, Retief DH, **Bradley EL** (1986): Cementum fluoride uptake from topical fluoride agents. *Journal of Dental Research*, 65:234, Abstract 586.

O'Brien JA, Retief DH, **Bradley EL**, Denys FR (1986): Effects of saliva contamination and phosphoric acid composition on bond strength. *Journal of Dental Research*, 65:314, Abstract 1302.

Thornton JB, Retief DH, **Bradley EL** (1986): Fluoride release from and tensile bond strength of Ketac-Fil and Ketac-Silver. *Journal of Dental Research*, 65:345, Abstract 1581.

George J, Samuelson PN, Lell WA, Kirklin JK, **Bradley EL**, Adams M (1986): Hemodynamic effects of diazepam-sufentanil compared to diazepam-fentanyl. 8th Annual Meeting of the Society of Cardiovascular Anesthesiologists, April 27-30.

Aldrete JA, Castillo RA, **Bradley EL** (1986): Changes of fresh gas flow affect the tidal volume delivered by anesthesia ventilators. IARS 60th Congress, March 15-19.

Ebert J, Harris C, Pearson J, Gelman S, **Bradley EL** (1986): Comparison of the protective effects of esmolol and fentanyl during laryngoscopy. IARS 60th Congress, March 15-19.

Ebert J, Carroll SK, **Bradley EL** (1986): Closed-loop feedback control of muscle relaxation with vecuronium in surgical patients. IARS 60th Congress, March 15-19.

Castillo RA, Kissin I, **Bradley EL** (1986): Opioid agonist for spinal analgesia without risk of respiratory depression. IARS 60th Congress, March 15-19.

Kissin I, Jeebles JA, **Bradley EL** (1986): Cardiac acceleration response to noxious stimulation: spinal and supraspinal mechanisms for orphine-pentobarbital interaction. Society of Cardiovascular Anesthesiologists.

Ebert J, Carroll SK, **Bradley EL** (1986): Quantitative comparison of thenar electromyographic and force displacement signals during automated vecuronium infusion. American Society of Anesthesiologists, April.

Kissin I, Mason JO, **Bradley EL** (1986): Morphine and fentanyl interactions with thiopental in relation to movement response to noxious stimulation. 14th International Congress of Israel Society of Anesthesiologists, Haifa.

Thornton JB, Retief DH, **Bradley EL** (1987): Microleakage of two glass ionomer cements: Fetcac-Fil and Ketac-Silver. *Journal of Dental Research*, 66:112, Abstract 46.

Wallace MC, Retief DH, Brewer K, **Bradley EL** (1987): Prevalence of root caries in a representative elderly population. *Journal of Dental Research*, 66:180, Abstract 585.

Retief DH, Wallace M, Brewer K, **Bradley EL** (1987): Relationship between cementum fluoride concentration and root caries experience. *Journal of Dental Research*, 66:180, Abstract 588.

O'Brien JA, Retief DH, **Bradley EL** (1987): Shear bond strength of a new dentin bonding restorative system. *Journal of Dental Research*, 66:292, Abstract 1485.

Kissin I, Mason JO, **Bradley EL** (1987): Morphine and fentanyl anesthetic interactions with barbiturates in rats. FASEB Annual Meeting, Washington. Fed. Proc. 46:1122.

ABSTRACTS (Continued):

Kissin I, Brown PT, **Bradley EL** (1987): Morphine and fentanyl anesthetic interactions with etomidate. American Society of Anesthesiologists, Atlanta. *Anesthesiology*, 67:A383.

Kissin I, McDanal J, Brown PT, Xavier AV, **Bradley EL** (1987) Effect of sympathetic blockade on tactile sensitivity." American Society of Anesthesiologists, Atlanta. *Anesthesiology*, 67:A269.

Azziz R, Huth J, Boots L, Parker CR, **Bradley EL**, Zacur H (1988) Comparison of adrenal stimulation by 1 MG or 0.25 MG 1-24 ACTH: 21-Hydroxylase (21-H): 11-B Hydroxylase (11-H), 17/20-Desmolase (17/20-D) and 3-B-Hydroxysteroid Dehydrogenase (3HSD) activity. *Society for Gynecologic Investigation*, 391.

Legler LR, Retief DH, Sadowsky PL, **Bradley EL**, Denys FR (1988): Effect of H₃PO₄ concentration and etch duration on bond strength. International Association of Dental Research.

Wallace MC, Retief DH, **Bradley EL** (1988): Incidence of root caries in older adults. *Journal of Dental Research*, 67:147, Abstract 272.

Marchman J, Retief DH, **Bradley EL**, Denys FR (1988): Shear bond strength of the tenure-perfection restorative system. *Journal of Dental Research*, 67:220, Abstract 859.

Smith LA, O'Brien JA, Retief DH, **Bradley EL** (1988): Microleakage of two dentinal bonding restorative systems. *Journal of Dental Research*, 67:309, Abstract 1568.

Legler LR, Retief DH, Sadowsky PL, **Bradley EL**, Denys FR (1988): Effect of H₃PO₄ concentration and etch duration on bond strength. *Journal of Dental Research*, 67:360, Abstract 1982.

Bastos PAM, Retief DH, **Bradley EL**, Denys FR (1988): Bond strengths of composite to enamel dependent on etch duration? *Journal of Dental Research*, 67:363, Abstract 2003.

Retief DH, Bastos PA, Leinfelder KF, **Bradley EL**, Denys FR (1988): Shear bond strength of an experimental bonding system to dentin. *Journal of Dental Research*, 67:363, Abstract 2005.

Kissin I, Brown PT, **Bradley EL** (1988): Diazepam-morphine interaction in rats. Congress of International Anesthesia Research Society, San Diego. *Anesth Analg*, 67:S114.

Tverskoy M, Fleyshman G, **Bradley EL**, Kissin I (1988): Midazolam-thiopental anesthetic synergism in patients. Congress of International Anesthesia Research Society, San Diego. *Anesth Analg*, 67:S240.

Kissin I, Brown PT, **Bradley EL**, Salazar CH (1988): Morphine-midazolam-thiopental hypnotic interactions in rats. FASEB Annual Meeting, Las Vegas, *FASEB Journal*, 2:A1397.

Kissin I, Mason JO, **Bradley EL** (1988): Morphine and fentanyl interactions with thiopental in relation to cardiac acceleration response to noxious stimulation. *Abstracts of 9th World Congress of Anaesthesiologists*, Washington, P. A0241.

Kissin I, Brown PT, **Bradley EL**, Salazar CH (1988): Thiopental antagonizes morphine-midazolam hypnotic synergism. American Society of Anesthesiologists, San Francisco. *Anesthesiology*, 69:A558.

ABSTRACTS (Continued):

Bastos PAM, Retief DH, Leinfelder KF, **Bradley EL**, Denys FR (1988): Enamel dependent on etch duration. International Association for Dental Research.

Retief DH, Bastos PAM, Leinfelder KF, **Bradley EL**, Denys FR (1988): Shear bond strength of an experimental bonding system to dentin. International Association for Dental Research.

Azziz R, Rafi A, Smith B, **Bradley EL**, Zacur HA (1988): Acute adrenal stimulation test for the detection of 21-hydroxylase deficiency in hyperandrogenic women. *American Fertility Society*, P-137.

Azziz R, Boots L, Parker CR, **Bradley EL**, Zacur HA (1989): 11-Hydroxylase (11-OH) deficiency in hyperandrogenism. *The American Fertility Society*, P-159.

Retief DH, McCartha CD, Bellezza J, **Bradley EL**, Denys FR (1989): The Use of low viscosity bonding resins in restorative dentistry. American Association for Dental Research, 18th Annual Session.

McCaghren RA, Retief DH, **Bradley EL** (1989): Bond strength of light-cured glass ionomer to enamel and dentin. American Association for Dental Research, 18th Annual Session.

Russell CM, **Bradley EL**, Retief DH (1989): A mathematical model for microradiographic mineral density profiles. American Association for Dental Research, 18th Annual Session.

Retief DH, Wendt SL, **Bradley EL** (1989): Shear bond strength of scotchbond 2 to dentin dependent on storage medium. American Association for Dental Research, 18th Annual Session.

Legler LR, Retief DH, **Bradley EL** (1989): Effect of H₃PO₄ concentration and etch duration on etch depth. American Association for Dental Research, 18th Annual Session.

Smith LA, Retief DH, **Bradley EL** (1989): Shear bond strength of tenure/perfection restorative system to dentin. American Association for Dental Research, 18th Annual Session.

Tverskoy M, Fleyshman G, Ezry J, **Bradley EL**, Kissin I (1989): Midazolam-morphine sedative interaction in patients. Congress of International Anesthesia Research Society, Buena Vista. *Anesth Analg*, 68:S321.

Wisniewski JF, Leinfelder KF, **Bradley EL** (1990): Effect of finishing techniques on the wear rate of posterior composite resins. IADR/AADR General Session, Cincinnati, Ohio. *J of Dental Research*, 69 (Special Issue):161.

Battito MF, Langner R, **Bradley EL** (1990): Desflurane (I-653) and Isoflurane in surgical patients: Comparative hemodynamics and emergence. *Anesthesiology Abstract*.

Azziz R, **Bradley EL**, Potter HD, Boots LR (1991): Deficient 3 β -hydroxysteroid dehydrogenase (3 β -HSD) activity in hyperandrogenism. *Society for Gynecologic Investigation*, 167.

Borton TE, Eby TL, Ball EV, Nolen BL, **Bradley EL** (1991) Auditory disorder in systemic lupus erythematosus. American Academy of Audiology, Denver.

Wallace MC, Retief DH, **Bradley EL** (1991): Effect of a 48-month preventive program on root caries incidence. Twentieth Annual Session of the American Association for Dental Research.

ABSTRACTS (Continued):

Rich NL, Boots LR, Davis RO, Finley SC, Cosper P, **Bradley EL** (1991): Profile of five second trimester maternal serum markers in normal and complicated pregnancies. *Proceedings of the Greenwood Genetic Center*, 10:143.

Rich NL, Boots LR, Davis RO, Finley SC, Cosper P, **Bradley EL** (1991): Correlation of five second trimester maternal serum markers with specific complications of pregnancy. *Proceedings of the Greenwood Genetic Center*, 10:143.

Blackburn G, Rogers WJ, Henzlova M, Salvia M, **Bradley EL** (1991): Attitudes of men and women toward participation in a multicenter trial of heart failure therapy. American College of Cardiology, Forty-first Annual Scientific Session, Dallas, Texas.

Azziz R, **Bradley EL**, Boots LR (1991): Effect of weight loss on adrenocortical steroidogenesis. The Endocrine Society.

Azziz R, Potter HD, **Bradley EL**, Boots LR (1991): Differential binding of sex-hormone binding globulin (SHBG) to estradiol (E₂) and testosterone (T) in relation to circulating T levels. *The American Fertility Society*, O-053.

Maske LE, Paine TD, **Bradley EL**, Rogers WJ (1991): Management of prolonged ischemic chest pain with or without ST elevation: Practice patterns in tertiary care hospitals. *Clinical Research*, 39:877A.

Parks JM, Robichaux RP, Papapietro SE, **Bradley EL**, Rogers WJ (1991): Do the presentation and clinical course of elderly patients with prolonged chest pain differ from younger patients? *Clinical Research*, 39:872A.

Azziz R, Potter HD, **Bradley EL**, Boots LR (1992): Androstenediol (Adiol) in healthy eumenorrheic women: Relationship to body mass and hormonal profile. *Society for Gynecologic Investigation*, 367.

Azziz R, **Bradley EL**, Parker CR, Boots LR (1992): Adrenocortical hyperactivity in hyperandrogenism: The role of 17-hydroxylase (17-OH) and 17, 20-desmolase (17, 20-D) dysfunction. *Society for Gynecologic Investigation*, 622.

Azziz R, Boots LR, **Bradley EL** (1992): Adrenal androgens in hyperinsulinemic hyperandrogenic women. *The Endocrine Society*, 844.

Parks JM, Robichaux RP, Papapietro SE, **Bradley EL**, Rogers WJ (1992): Do the management and outcome of elderly patients with prolonged chest pain differ from younger patients? *Journal of the American College of Cardiology*, 19:178A.

Varma VK, Murphy PL, Hood WP, **Bradley EL**, Rogers WJ (1992): Are women with acute myocardial infarction managed differently from men? *Journal of the American College of Cardiology*, 19:20A.

Maske LE, Paine TD, **Bradley EL**, Rogers WJ (1992): Management of prolonged ischemic chest pain with or without ST elevation: Practice patterns in tertiary care hospitals. American Federation for Clinical Research, Southern Meeting, New Orleans.

ABSTRACTS (Continued):

Varma VK, Murphy PL, Hood WP, **Bradley EL**, Rogers WJ (1992) Is gender a factor in the management of acute myocardial infarction? *Clinical Research*, 39:801A.

Cox DA, Davis WR, Williams JA, **Bradley EL**, Rogers WJ (1992): Do patients with prior coronary artery bypass grafting and severe chest pain differ in presentation, management, and in-hospital outcome? *Clinical Research*, 39:800A.

Blackburn GH, Rogers WJ, Henziová MJ, Salvia MF, **Bradley EL** (1992): Are there gender-related differences among attitudes of patients in heart failure trials?" Thirteen Annual Meeting of the Society for Clinical Trials, Philadelphia, Pennsylvania.

Sipe S, Boyd G, Battito M, **Bradley EL** (1992): High failure rate for pulse oximetry in patients with chronic renal failure. *Anesthesiology*, 20(4) (Suppl.).

Pearce DJ, Rogers WJ, **Bradley EL** (1992): Use of thrombolytic therapy in patients with a history of severe hypertension. American College of Cardiology 41st Annual Scientific Session, Dallas Texas.

Paine TD, Maske LE, **Bradley EL**, Rogers WJ (1992): Community practice patterns in the management of prolonged ischemic chest pain with or without ST elevation. *The Journal of the American College of Cardiology*, 19:21A.

Prim JF, Shealy SA, Lechner DE, Gossman MR, **Bradley EL** (1992): Factors influencing the lifting ability of healthy females 20 to 35 years of age. APTA Annual Conference, Cincinnati, Ohio.

Koons JC, Dickerson QH, **Bradley EL**, Rogers WJ (1993): Do patients with diabetes mellitus differ from nondiabetic patients with prolonged myocardial ischemia? *The Journal of the American College of Cardiology*, 21:239A.

Koons JC, Dickerson QH, **Bradley EL**, Rogers WJ (1993): Patients with diabetes mellitus differ from nondiabetic patients in a registry of hospital admissions for prolonged chest pain. *Clinical Research*, 40:807A.

Pearce DJ, Rogers WJ, **Bradley EL** (1993): Use of thrombolytic therapy in patients with a history of severe hypertension. *Clinical Research*, 40:806A.

Rogers WJ, Dean LS, Moore PB, **Bradley EL**. (1993): Primary PTCA versus lytic therapy in myocardial infarction: Results of a multicenter registry. *Clinical Research*, 40:806A.

Rogers WJ, Dean LS, Moore PB, Burgard SL, **Bradley EL** (1993): Outcome of patients managed with primary PTCA versus lytic therapy in a multicenter registry. *The Journal of the American College of Cardiology*, 21:330A.

Azziz R, **Bradley EL**, Zacur HA, Boots LR (1993): Predictors of the dehydroepiandrosterone sulfate (DHS) level in hyperandrogenic and euandrogenic women. American Fertility Society, 49th Annual Meeting, Palais des Congress.

Azziz R, **Bradley EL**, Zacur HA, Parker CR, Boots LR (1993): Adrenocortical secretion of dehydroepiandrosterone (DHA) in health women: Variable sensitivity to ACTH. *Endocrine Society*, O-1606.

ABSTRACTS (Continued):

Levine RL, Stegall G, **Bradley EL**, Roger WJ (1993): Variables predictive of coronary revascularization among patients admitted with prolonged ischemic chest pain. *Clinical Research*, 41:344A.

Faught E, Kuzniecky RI, **Bradley EL** (1993): How many seizures should be observed by EEG/videomonitoring to conclude that all seizures arise from one site? American Academy of Neurology, 45th Annual Meeting, New York.

Levine RL, Stegall GC, **Bradley EL**, Rogers WJ (1993): Predictors of coronary revascularization among patients admitted with prolonged ischemic chest pain. American Heart Association, 66th Scientific Sessions, Atlanta, Georgia, November 8-11.

Azziz R, **Bradley EL**, Zacur HA, Parker CR, Boots LR (1993): Adrenocortical secretion of dehydroepiandrosterone(DHA) in healthy women: Variable sensitivity to ACTH. Endocrine Society, 1993, No. 1606, June.

Robinson G, **Bradley EL** (1993): Rate of disruption of silicone gel prostheses - a report of 200 cases.

Azziz R, **Bradley EL**, Zacur HA, Boots LR (1993): Predictors of the Dehydroepiandrosterone Sulfate Level in Hyperandrogenic and Euandrogenic Women. Society for Gynecologic Investigation.

Whitaker JN, Williams PH, Layton BA, Kachelhofer RD, **Bradley EL**, McFarland HF, Stone LA, Smith M, Zhao G, Paty DW (1993): Clinical, imaging and treatment correlations of urinary myelin basic protein-like material in patients with multiple sclerosis. *Canad J Neurol Sci*, 20(Suppl 4):S104.

Whitaker JN, **Bradley EL**, Burgard S, Layton BA, Kachelhofer RD, Morrison KW, Zhao G, Paty DW (1994): Urinary myelin basic protein-like material as a correlate of the progressive phase of multiple sclerosis. *Ann Neurol*, 36:259-260.

Stegall G, Davis WR, **Bradley EL**, Roger WJ (1994): Variables predictive of time to evaluation in patients admitted with prolonged ischemic chest pain. *Clinical Research*, 41:720A.

Azziz R, Dewailly D, Zacur HA, **Bradley EL** (1995): Testing for 21-hydroxylase (21-OH) deficiency should precede the evaluation of 3 β -hydroxysteroid (3 β -HSD) deficiency. The Endocrine Society.

Hsu HC, Zhou T, Yang PA, **Bradley EL**, Mountz JD (1996): CCD2-FAS transgene increases T Cell immune response and elevate AA Amyloidosis in the kidney of aged CD-1 mice. First International Conference on Immunology and Aging.

Azziz R, Rittmaster RS, Fox LM, **Bradley EL**, Potter HD, Boots LR (1996): Changes in dehydroepiandrosterone (DHA) levels during ovarian suppression of hyperandrogenic women do not reflect alterations in the acth-stimulated secretion of DHA. The Endocrine Society.

Azziz R, Dewailly D, Cortet-Rudelli C, Fox LM, **Bradley EL**, Boots LR (1996): 11 β -Hydroxylase (11-OH) activity is not exaggerated in 21-Hydroxylase (21-OH) deficient non-classic adrenal hyperplasia (NCAH). The Endocrine Society.

Cox II LK, Hafez AA, **Bradley EL**, Windecker I, Suzuki S, Cox CF (1996): Correlation of diagnostic parameters for evaluation of TMJ disorders. The University of Alabama, School of Dentistry, Restorative Research Group, Birmingham, Alabama.

ABSTRACTS (Continued):

Nurko C, Aponte-Merced L, **Bradley EL**, Fox LM (1996): Dental caries and dental care of Mexican-American migrant children. *Pediatric Dentistry*, 18:2.

Azziz R, Black V, Hines G, Downing HD, **Bradley EL**, Boots LR (1997): The polycystic ovary syndrome (PCOS): Sensitivity and responsivity to ACTH-(1-24) and ovine corticotropin releasing hormone (CRH) stimulation in patients with and without excess dehydroepiandrosterone sulfate (DHS). The Endocrine Society.

Clemons TE, Inman HF, and **Bradley EL** (1997): The overlapping coefficient for two normal probability functions with unequal variances. The Biometric Society, East North American Region, Spring Meeting.

Moran C, Zacur HA, **Bradley EL**, Boots LR, Azziz R (1998): Excess dehydroepiandrosterone (DHEA) sulfate (DHEAS) in hyperandrogenism is not simply an exaggeration of adrenocortical androgen secretion. The Endocrine Society.

RECENT LEGAL TESTIMONY (Last Four Years):

Johnny Reynolds et al vs Alabama Department of Transportation:CV-85-T-665-N (1991-2003): US District Court for the Middle District of Alabama, Northern Division, Judge Myron Thompson. Robert Wiggins, plaintiff attorney. Race discrimination in hiring and promotions. Deposition and trial testimony.

Eugene Crum, Jr. et al vs State of Alabama:CV-94-T-356-N (1994-2004): US District Court for the Middle District of Alabama, Northern Division, Judge Myron Thompson. Robert Childs, plaintiff attorney. Race discrimination in hiring and promotions. Deposition testimony.

Carol C Moore vs Norfolk Southern: 93-C-0133-S (1997-2002): US District Court for the Northern District of Alabama, Southern Division, Judge UW Clemon. Ann K Wiggins, plaintiff attorney. Race discrimination in hiring and promotions. Deposition and trial testimony.

Sherman Lott, et al. vs. Westinghouse Savannah River Company, Inc., et al.: 1:98 CV 02075-22 (1999-2001): US District Court for the District of South Carolina, Aiken Division. Ivan Smith, plaintiffs' attorney. Racial discrimination in employment. Deposition and trial testimony.

Owens Corning vs. R. J. Reynolds Tobacco Company, et. al.: 96-0065 (2001): Circuit Court for Jefferson County, Mississippi. Thomas A. Duncan, defense attorney. Product liability. Deposition testimony.

David Tompkin, et al. vs. American Brands, Inc., et al.: 5:94 CV 1302 (2001): US District Court for the Northern District of Ohio, Eastern Division. Donald Kemna, defense attorney. Product liability. Deposition and trial testimony.

Gaynell Blalock vs. Waste Industries, Inc.: CV-00-S-2668-NE (2001): US District Court for the Northern District of Alabama, Northeastern Division. Ann K Wiggins, plaintiff attorney. Gender discrimination in hiring. Deposition testimony.

Jan Brown, et al. vs. Philip Morris, Inc., et al.: 3-9-CV-4139(MLC) (2001): US District Court for the District of New Jersey. Donald Kemna, defense attorney. Product liability. Deposition testimony.

Kelvis Rhodes, et al. vs. Cracker Barrel Old Country Store, Inc.: 4:99-CV-217-HLM (2002): US District Court for the Northern District of Georgia. Robert F. Childs, plaintiff attorney. Racial discrimination in pay, promotions and job assignments. Deposition testimony.

United States of America vs. Philip Morris, Inc., et al.: 99-CV-02496(GK) (2002-2005): US District Court for the District of Columbia, Judge Gladys Kessler. John Monica, defense attorney. Product liability. Deposition and trial testimony.

Alan Harvey and Madeline Harvey vs. ABB Lummus Global, Inc., et al.: 312112 (2002): Superior Court of California, County of San Francisco. Curtis Perry, defense attorney. Product liability. Deposition testimony.

Roach et al. vs. Brown & Williamson Tobacco Corporation, et al.: 99-CV-213422-01 (2002): Circuit Court of Jackson County, Missouri at Independence. Tom Duncan, defense attorney. Product liability. Deposition testimony.

Carter vs. Philip Morris, Inc., et al.: 004567 (2003): Court of Common Pleas of Philadelphia County, First Judicial District of Pennsylvania. Steve McConnell, defense attorney. Product liability. Trial testimony.

RECENT LEGAL TESTIMONY (Continued):

Karen Yapp, et al. vs. Union Pacific Railroad Company: 4:02CV00615SNL (2003-2004): US District Court for the Eastern District of Missouri, Eastern Division. Robert F. Childs, plaintiff attorney. Racial discrimination in promotions. Deposition and trial testimony.

Janice R. Morgan, et al. vs. Family Dollar Stores, Inc.: CV-01-C-0303-W (2004): US District Court for the Northern District of Alabama, Southern Division. Robert F. Childs, plaintiff attorney. FLSA collective action. Deposition testimony.

Bill Robinson, et al. vs Gordon R. England: 1:02-CV-94-2 (WLS) (2005): US District Court for the Middle District of Georgia, Albany Division, Judge Sands. Rocco Calamusa, plaintiff attorney. Racial discrimination in hiring and promotion. By deposition.